Supplementary Informations

Dynamic features of apo and bound HIV-Nef protein reveal the anti-HIV dimerization inhibition mechanism.

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Figure S1. Potential Energy fluctuation for both bound (complexed with B9) and apo conformations respectively.

Table S1. Details of system set up for both apo and bound conformations of HIV-Nef

System	Number of Water Molecules	Number of Counter Ions	Number of atoms in each System (Including water and counter ions)
Nef-apo	10063	4 Cl-	33699
Nef-bound	10105	4 Cl-	33741

PDB co-ordinate of HIV-Nef generated at pH 7.0

REMARK Created by <http://biophysics.cs.vt.edu/H++>

REMARK

ATOM	1	N	ARG	71	34.264	8.216	17.885	0.1305	1.550	N
ATOM	2	H1	ARG	71	34.455	7.854	16.961	0.2083	1.300	H
ATOM	3	H2	ARG	71	34.717	9.113	17.994	0.2083	1.300	H
ATOM	4	H3	ARG	71	33.267	8.329	18.000	0.2083	1.300	H
ATOM	5	CA	ARG	71	34.775	7.285	18.896	-0.0223	1.700	C
ATOM	6	HA	ARG	71	34.286	6.318	18.787	0.1242	1.200	H
ATOM	7	CB	ARG	71	36.286	7.074	18.738	0.0118	1.700	C
ATOM	8	HB2	ARG	71	36.480	6.720	17.724	0.0226	1.200	H
ATOM	9	HB3	ARG	71	36.794	8.034	18.847	0.0226	1.200	H
ATOM	10	CG	ARG	71	36.888	6.068	19.709	0.0236	1.700	C
ATOM	11	HG2	ARG	71	36.564	6.292	20.726	0.0309	1.200	H
ATOM	12	HG3	ARG	71	36.555	5.061	19.451	0.0309	1.200	H
ATOM	13	CD	ARG	71	38.401	6.135	19.671	0.0935	1.700	C
ATOM	14	HD2	ARG	71	38.733	5.849	18.673	0.0527	1.200	H
ATOM	15	HD3	ARG	71	38.705	7.171	19.823	0.0527	1.200	H
ATOM	16	NE	ARG	71	39.043	5.341	20.715	-0.5650	1.550	N
ATOM	17	HE	ARG	71	38.860	5.593	21.676	0.3592	1.300	H
ATOM	18	CZ	ARG	71	39.876	4.327	20.480	0.8281	1.700	C
ATOM	19	NH1	ARG	71	40.165	3.966	19.232	-0.8693	1.550	N
ATOM	20	HH11	ARG	71	40.789	3.192	19.061	0.4494	1.300	H
ATOM	21	HH12	ARG	71	39.754	4.459	18.455	0.4494	1.300	H
ATOM	22	NH2	ARG	71	40.482	3.712	21.492	-0.8693	1.550	N
ATOM	23	HH21	ARG	71	41.160	2.988	21.312	0.4494	1.300	H

ATOM	24	HH22	ARG	71	40.276	3.982	22.443	0.4494	1.300	H
ATOM	25	C	ARG	71	34.475	7.896	20.249	0.7214	1.700	C
ATOM	26	O	ARG	71	35.268	8.665	20.789	-0.6013	1.500	O
ATOM	27	N	PRO	72	33.332	7.531	20.826	-0.2548	1.550	N
ATOM	28	CD	PRO	72	32.547	6.388	20.351	0.0192	1.700	C
ATOM	29	HD2	PRO	72	33.009	5.452	20.671	0.0391	1.200	H
ATOM	30	HD3	PRO	72	32.384	6.401	19.273	0.0391	1.200	H
ATOM	31	CG	PRO	72	31.241	6.596	21.042	0.0189	1.700	C
ATOM	32	HG2	PRO	72	30.657	5.675	21.081	0.0213	1.200	H
ATOM	33	HG3	PRO	72	30.675	7.389	20.550	0.0213	1.200	H
ATOM	34	CB	PRO	72	31.660	7.027	22.386	-0.0070	1.700	C
ATOM	35	HB2	PRO	72	32.008	6.162	22.956	0.0253	1.200	H
ATOM	36	HB3	PRO	72	30.848	7.523	22.919	0.0253	1.200	H
ATOM	37	CA	PRO	72	32.823	7.992	22.115	-0.0266	1.700	C
ATOM	38	HA	PRO	72	32.437	9.006	22.000	0.0641	1.200	H
ATOM	39	C	PRO	72	33.827	7.941	23.257	0.5896	1.700	C
ATOM	40	O	PRO	72	34.847	7.249	23.203	-0.5748	1.500	O
ATOM	41	N	GLN	73	33.553	8.728	24.280	-0.4157	1.550	N
ATOM	42	H	GLN	73	32.696	9.260	24.314	0.2719	1.300	H
ATOM	43	CA	GLN	73	34.396	8.707	25.436	-0.0031	1.700	C
ATOM	44	HA	GLN	73	35.445	8.576	25.162	0.0850	1.200	H
ATOM	45	CB	GLN	73	34.219	9.983	26.261	-0.0036	1.700	C
ATOM	46	HB2	GLN	73	34.505	10.812	25.613	0.0171	1.200	H
ATOM	47	HB3	GLN	73	33.168	10.140	26.508	0.0171	1.200	H
ATOM	48	CG	GLN	73	35.100	10.083	27.499	-0.0645	1.700	C
ATOM	49	HG2	GLN	73	35.841	9.414	27.163	0.0352	1.200	H
ATOM	50	HG3	GLN	73	35.449	11.090	27.729	0.0352	1.200	H
ATOM	51	CD	GLN	73	34.502	9.358	28.679	0.6951	1.700	C
ATOM	52	OE1	GLN	73	33.277	9.271	28.804	-0.6086	1.500	O
ATOM	53	NE2	GLN	73	35.351	8.816	29.547	-0.9407	1.550	N
ATOM	54	HE21	GLN	73	34.973	8.286	30.316	0.4251	1.300	H
ATOM	55	HE22	GLN	73	36.344	8.836	29.378	0.4251	1.300	H
ATOM	56	C	GLN	73	33.842	7.480	26.147	0.5973	1.700	C
ATOM	57	O	GLN	73	32.634	7.368	26.380	-0.5679	1.500	O
ATOM	58	N	VAL	74	34.722	6.508	26.342	-0.4157	1.550	N
ATOM	59	H	VAL	74	35.682	6.670	26.071	0.2719	1.300	H
ATOM	60	CA	VAL	74	34.434	5.244	27.006	-0.0875	1.700	C
ATOM	61	HA	VAL	74	33.795	4.674	26.334	0.0969	1.200	H
ATOM	62	CB	VAL	74	35.766	4.511	27.204	0.2985	1.700	C
ATOM	63	HB	VAL	74	36.596	5.196	27.068	-0.0297	1.200	H
ATOM	64	CG1	VAL	74	35.919	3.994	28.578	-0.3192	1.700	C
ATOM	65	HG11	VAL	74	36.881	3.492	28.641	0.0791	1.200	H
ATOM	66	HG12	VAL	74	35.934	4.814	29.291	0.0791	1.200	H
ATOM	67	HG13	VAL	74	35.178	3.245	28.837	0.0791	1.200	H
ATOM	68	CG2	VAL	74	35.915	3.441	26.190	-0.3192	1.700	C
ATOM	69	HG21	VAL	74	36.837	2.885	26.354	0.0791	1.200	H
ATOM	70	HG22	VAL	74	35.078	2.745	26.251	0.0791	1.200	H
ATOM	71	HG23	VAL	74	35.944	3.882	25.194	0.0791	1.200	H
ATOM	72	C	VAL	74	33.700	5.459	28.327	0.5973	1.700	C
ATOM	73	O	VAL	74	33.778	6.530	28.931	-0.5679	1.500	O
ATOM	74	N	PRO	75	32.917	4.466	28.766	-0.2548	1.550	N
ATOM	75	CD	PRO	75	32.541	3.205	28.104	0.0192	1.700	C
ATOM	76	HD2	PRO	75	33.280	2.428	28.296	0.0391	1.200	H
ATOM	77	HD3	PRO	75	32.374	3.330	27.035	0.0391	1.200	H
ATOM	78	CG	PRO	75	31.249	2.860	28.783	0.0189	1.700	C
ATOM	79	HG2	PRO	75	31.039	1.792	28.719	0.0213	1.200	H
ATOM	80	HG3	PRO	75	30.432	3.437	28.344	0.0213	1.200	H
ATOM	81	CB	PRO	75	31.479	3.295	30.200	-0.0070	1.700	C
ATOM	82	HB2	PRO	75	32.126	2.573	30.703	0.0253	1.200	H
ATOM	83	HB3	PRO	75	30.540	3.408	30.744	0.0253	1.200	H
ATOM	84	CA	PRO	75	32.196	4.638	30.037	-0.0266	1.700	C
ATOM	85	HA	PRO	75	31.471	5.448	29.946	0.0641	1.200	H
ATOM	86	C	PRO	75	33.159	4.884	31.206	0.5896	1.700	C
ATOM	87	O	PRO	75	34.291	4.403	31.200	-0.5748	1.500	O
ATOM	88	N	LEU	76	32.736	5.651	32.198	-0.4157	1.550	N
ATOM	89	H	LEU	76	31.817	6.066	32.182	0.2719	1.300	H
ATOM	90	CA	LEU	76	33.609	5.875	33.341	-0.0518	1.700	C
ATOM	91	HA	LEU	76	34.586	6.205	32.992	0.0922	1.200	H
ATOM	92	CB	LEU	76	33.031	6.939	34.281	-0.1102	1.700	C
ATOM	93	HB2	LEU	76	33.171	7.897	33.776	0.0457	1.200	H
ATOM	94	HB3	LEU	76	31.953	6.792	34.376	0.0457	1.200	H
ATOM	95	CG	LEU	76	33.642	7.022	35.688	0.3531	1.700	C
ATOM	96	HG	LEU	76	34.714	6.837	35.619	-0.0361	1.200	H
ATOM	97	CD1	LEU	76	33.493	8.418	36.236	-0.4121	1.700	C
ATOM	98	HD11	LEU	76	33.952	8.479	37.224	0.1000	1.200	H
ATOM	99	HD12	LEU	76	33.998	9.128	35.580	0.1000	1.200	H
ATOM	100	HD13	LEU	76	32.437	8.684	36.309	0.1000	1.200	H

ATOM	101	CD2	LEU	76	33.005	5.992	36.644	-0.4121	1.700	C
ATOM	102	HD21	LEU	76	32.325	5.315	36.129	0.1000	1.200	H
ATOM	103	HD22	LEU	76	33.787	5.415	37.137	0.1000	1.200	H
ATOM	104	HD23	LEU	76	32.426	6.496	37.419	0.1000	1.200	H
ATOM	105	C	LEU	76	33.736	4.554	34.084	0.5973	1.700	C
ATOM	106	O	LEU	76	32.845	3.714	33.996	-0.5679	1.500	O
ATOM	107	N	ARG	77	34.845	4.366	34.794	-0.3479	1.550	N
ATOM	108	H	ARG	77	35.557	5.082	34.805	0.2747	1.300	H
ATOM	109	CA	ARG	77	35.068	3.170	35.596	-0.2637	1.700	C
ATOM	110	HA	ARG	77	34.117	2.946	36.074	0.1560	1.200	H
ATOM	111	CB	ARG	77	35.475	1.957	34.764	-0.0007	1.700	C
ATOM	112	HB2	ARG	77	35.658	1.131	35.454	0.0327	1.200	H
ATOM	113	HB3	ARG	77	34.624	1.675	34.140	0.0327	1.200	H
ATOM	114	CG	ARG	77	36.658	2.121	33.894	0.0390	1.700	C
ATOM	115	HG2	ARG	77	36.447	2.866	33.125	0.0285	1.200	H
ATOM	116	HG3	ARG	77	37.526	2.431	34.468	0.0285	1.200	H
ATOM	117	CD	ARG	77	36.946	0.799	33.248	0.0486	1.700	C
ATOM	118	HD2	ARG	77	37.274	0.096	34.016	0.0687	1.200	H
ATOM	119	HD3	ARG	77	36.034	0.419	32.783	0.0687	1.200	H
ATOM	120	NE	ARG	77	37.967	0.912	32.222	-0.5295	1.550	N
ATOM	121	HE	ARG	77	38.277	1.840	31.989	0.3456	1.300	H
ATOM	122	CZ	ARG	77	38.522	-0.124	31.611	0.8076	1.700	C
ATOM	123	NH1	ARG	77	38.156	-1.349	31.951	-0.8627	1.550	N
ATOM	124	HH11	ARG	77	37.516	-1.485	32.718	0.4478	1.300	H
ATOM	125	HH12	ARG	77	38.518	-2.142	31.443	0.4478	1.300	H
ATOM	126	NH2	ARG	77	39.399	0.062	30.625	-0.8627	1.550	N
ATOM	127	HH21	ARG	77	39.627	1.000	30.328	0.4478	1.300	H
ATOM	128	HH22	ARG	77	39.810	-0.725	30.146	0.4478	1.300	H
ATOM	129	C	ARG	77	36.117	3.520	36.611	0.7341	1.700	C
ATOM	130	O	ARG	77	37.108	4.165	36.281	-0.5894	1.500	O
ATOM	131	N	PRO	78	35.871	3.165	37.884	-0.2548	1.550	N
ATOM	132	CD	PRO	78	34.751	2.310	38.314	0.0192	1.700	C
ATOM	133	HD2	PRO	78	34.511	1.532	37.589	0.0391	1.200	H
ATOM	134	HD3	PRO	78	33.875	2.920	38.542	0.0391	1.200	H
ATOM	135	CG	PRO	78	35.297	1.666	39.568	0.0189	1.700	C
ATOM	136	HG2	PRO	78	35.995	0.865	39.316	0.0213	1.200	H
ATOM	137	HG3	PRO	78	34.495	1.292	40.205	0.0213	1.200	H
ATOM	138	CB	PRO	78	36.012	2.811	40.199	-0.0070	1.700	C
ATOM	139	HB2	PRO	78	36.690	2.479	40.986	0.0253	1.200	H
ATOM	140	HB3	PRO	78	35.291	3.527	40.600	0.0253	1.200	H
ATOM	141	CA	PRO	78	36.767	3.430	39.014	-0.0266	1.700	C
ATOM	142	HA	PRO	78	36.825	4.509	39.167	0.0641	1.200	H
ATOM	143	C	PRO	78	38.187	2.880	38.889	0.5896	1.700	C
ATOM	144	O	PRO	78	38.435	1.850	38.253	-0.5748	1.500	O
ATOM	145	N	MET	79	39.118	3.619	39.468	-0.4157	1.550	N
ATOM	146	H	MET	79	38.853	4.458	39.963	0.2719	1.300	H
ATOM	147	CA	MET	79	40.520	3.241	39.484	-0.0237	1.700	C
ATOM	148	HA	MET	79	40.799	2.823	38.516	0.0880	1.200	H
ATOM	149	CB	MET	79	41.367	4.476	39.832	0.0342	1.700	C
ATOM	150	HB2	MET	79	41.179	5.245	39.082	0.0241	1.200	H
ATOM	151	HB3	MET	79	41.029	4.876	40.789	0.0241	1.200	H
ATOM	152	CG	MET	79	42.844	4.247	39.932	0.0018	1.700	C
ATOM	153	HG2	MET	79	43.368	5.191	40.083	0.0440	1.200	H
ATOM	154	HG3	MET	79	43.059	3.576	40.764	0.0440	1.200	H
ATOM	155	SD	MET	79	43.341	3.512	38.455	-0.2737	1.800	S
ATOM	156	CE	MET	79	43.517	4.874	37.383	-0.0536	1.700	C
ATOM	157	HE1	MET	79	43.695	4.515	36.370	0.0684	1.200	H
ATOM	158	HE2	MET	79	42.618	5.488	37.392	0.0684	1.200	H
ATOM	159	HE3	MET	79	44.370	5.465	37.708	0.0684	1.200	H
ATOM	160	C	MET	79	40.640	2.192	40.590	0.5973	1.700	C
ATOM	161	O	MET	79	39.912	2.223	41.581	-0.5679	1.500	O
ATOM	162	N	THR	80	41.526	1.238	40.417	-0.4157	1.550	N
ATOM	163	H	THR	80	42.127	1.232	39.606	0.2719	1.300	H
ATOM	164	CA	THR	80	41.703	0.217	41.433	-0.0389	1.700	C
ATOM	165	HA	THR	80	41.502	0.596	42.437	0.1007	1.200	H
ATOM	166	CB	THR	80	40.831	-1.009	41.131	0.3654	1.700	C
ATOM	167	HB	THR	80	41.136	-1.837	41.771	0.0043	1.200	H
ATOM	168	CG2	THR	80	39.387	-0.698	41.388	-0.2438	1.700	C
ATOM	169	HG21	THR	80	38.813	-1.623	41.341	0.0642	1.200	H
ATOM	170	HG22	THR	80	39.263	-0.270	42.383	0.0642	1.200	H
ATOM	171	HG23	THR	80	38.990	-0.016	40.636	0.0642	1.200	H
ATOM	172	OG1	THR	80	40.981	-1.382	39.750	-0.6761	1.500	O
ATOM	173	HG1	THR	80	40.597	-0.684	39.213	0.4102	1.200	H
ATOM	174	C	THR	80	43.158	-0.165	41.332	0.5973	1.700	C
ATOM	175	O	THR	80	43.786	0.094	40.293	-0.5679	1.500	O
ATOM	176	N	TYR	81	43.702	-0.755	42.393	-0.4157	1.550	N
ATOM	177	H	TYR	81	43.144	-0.924	43.217	0.2719	1.300	H

ATOM	178	CA	TYR	81	45.097	-1.188	42.402	-0.0014	1.700	C
ATOM	179	HA	TYR	81	45.754	-0.325	42.510	0.0876	1.200	H
ATOM	180	CB	TYR	81	45.318	-2.156	43.561	-0.0152	1.700	C
ATOM	181	HB2	TYR	81	45.188	-1.607	44.495	0.0295	1.200	H
ATOM	182	HB3	TYR	81	44.549	-2.932	43.538	0.0295	1.200	H
ATOM	183	CG	TYR	81	46.674	-2.814	43.585	-0.0011	1.700	C
ATOM	184	CD1	TYR	81	47.802	-2.133	44.032	-0.1906	1.700	C
ATOM	185	HD1	TYR	81	47.710	-1.117	44.387	0.1699	1.200	H
ATOM	186	CE1	TYR	81	49.057	-2.732	43.996	-0.2341	1.700	C
ATOM	187	HE1	TYR	81	49.922	-2.184	44.337	0.1656	1.200	H
ATOM	188	CZ	TYR	81	49.177	-4.017	43.510	0.3226	1.700	C
ATOM	189	OH	TYR	81	50.393	-4.636	43.409	-0.5579	1.500	O
ATOM	190	HH	TYR	81	51.106	-4.111	43.790	0.3992	1.200	H
ATOM	191	CE2	TYR	81	48.072	-4.704	43.074	-0.2341	1.700	C
ATOM	192	HE2	TYR	81	48.178	-5.709	42.691	0.1656	1.200	H
ATOM	193	CD2	TYR	81	46.834	-4.111	43.115	-0.1906	1.700	C
ATOM	194	HD2	TYR	81	45.979	-4.663	42.753	0.1699	1.200	H
ATOM	195	C	TYR	81	45.374	-1.871	41.076	0.5973	1.700	C
ATOM	196	O	TYR	81	46.214	-1.430	40.282	-0.5679	1.500	O
ATOM	197	N	LYS	82	44.551	-2.856	40.764	-0.3479	1.550	N
ATOM	198	H	LYS	82	43.845	-3.156	41.419	0.2747	1.300	H
ATOM	199	CA	LYS	82	44.727	-3.573	39.532	-0.2400	1.700	C
ATOM	200	HA	LYS	82	45.705	-4.058	39.572	0.1426	1.200	H
ATOM	201	CB	LYS	82	43.679	-4.659	39.389	-0.0094	1.700	C
ATOM	202	HB2	LYS	82	43.675	-5.289	40.280	0.0362	1.200	H
ATOM	203	HB3	LYS	82	42.700	-4.184	39.299	0.0362	1.200	H
ATOM	204	CG	LYS	82	43.944	-5.522	38.184	0.0187	1.700	C
ATOM	205	HG2	LYS	82	44.236	-4.912	37.336	0.0103	1.200	H
ATOM	206	HG3	LYS	82	44.763	-6.210	38.399	0.0103	1.200	H
ATOM	207	CD	LYS	82	42.720	-6.303	37.736	-0.0479	1.700	C
ATOM	208	HD2	LYS	82	42.511	-7.114	38.435	0.0621	1.200	H
ATOM	209	HD3	LYS	82	41.867	-5.622	37.716	0.0621	1.200	H
ATOM	210	CE	LYS	82	42.931	-6.855	36.336	-0.0143	1.700	C
ATOM	211	HE2	LYS	82	43.457	-6.122	35.743	0.1135	1.200	H
ATOM	212	HE3	LYS	82	43.523	-7.770	36.378	0.1135	1.200	H
ATOM	213	NZ	LYS	82	41.613	-7.103	35.701	-0.3854	1.550	N
ATOM	214	HZ1	LYS	82	41.095	-6.238	35.657	0.3400	1.300	H
ATOM	215	HZ2	LYS	82	41.758	-7.444	34.761	0.3400	1.300	H
ATOM	216	HZ3	LYS	82	41.099	-7.786	36.237	0.3400	1.300	H
ATOM	217	C	LYS	82	44.722	-2.671	38.312	0.7341	1.700	C
ATOM	218	O	LYS	82	45.554	-2.822	37.421	-0.5894	1.500	O
ATOM	219	N	ALA	83	43.802	-1.724	38.238	-0.4157	1.550	N
ATOM	220	H	ALA	83	43.144	-1.576	38.989	0.2719	1.300	H
ATOM	221	CA	ALA	83	43.781	-0.854	37.059	0.0337	1.700	C
ATOM	222	HA	ALA	83	43.771	-1.486	36.169	0.0823	1.200	H
ATOM	223	CB	ALA	83	42.515	0.001	37.014	-0.1825	1.700	C
ATOM	224	HB1	ALA	83	42.573	0.671	36.158	0.0603	1.200	H
ATOM	225	HB2	ALA	83	41.636	-0.637	36.925	0.0603	1.200	H
ATOM	226	HB3	ALA	83	42.440	0.603	37.917	0.0603	1.200	H
ATOM	227	C	ALA	83	45.027	0.019	36.990	0.5973	1.700	C
ATOM	228	O	ALA	83	45.526	0.276	35.896	-0.5679	1.500	O
ATOM	229	N	ALA	84	45.550	0.456	38.137	-0.4157	1.550	N
ATOM	230	H	ALA	84	45.141	0.198	39.023	0.2719	1.300	H
ATOM	231	CA	ALA	84	46.746	1.294	38.127	0.0337	1.700	C
ATOM	232	HA	ALA	84	46.603	2.115	37.422	0.0823	1.200	H
ATOM	233	CB	ALA	84	47.015	1.880	39.491	-0.1825	1.700	C
ATOM	234	HB1	ALA	84	47.893	2.517	39.440	0.0603	1.200	H
ATOM	235	HB2	ALA	84	46.165	2.493	39.793	0.0603	1.200	H
ATOM	236	HB3	ALA	84	47.148	1.090	40.223	0.0603	1.200	H
ATOM	237	C	ALA	84	47.914	0.445	37.664	0.5973	1.700	C
ATOM	238	O	ALA	84	48.686	0.872	36.793	-0.5679	1.500	O
ATOM	239	N	VAL	85	48.024	-0.774	38.204	-0.4157	1.550	N
ATOM	240	H	VAL	85	47.358	-1.081	38.895	0.2719	1.300	H
ATOM	241	CA	VAL	85	49.091	-1.708	37.790	-0.0875	1.700	C
ATOM	242	HA	VAL	85	50.049	-1.206	37.930	0.0969	1.200	H
ATOM	243	CB	VAL	85	49.111	-3.018	38.622	0.2985	1.700	C
ATOM	244	HB	VAL	85	48.143	-3.517	38.551	-0.0297	1.200	H
ATOM	245	CG1	VAL	85	50.177	-3.932	38.097	-0.3192	1.700	C
ATOM	246	HG11	VAL	85	50.278	-4.796	38.753	0.0791	1.200	H
ATOM	247	HG12	VAL	85	49.914	-4.309	37.110	0.0791	1.200	H
ATOM	248	HG13	VAL	85	51.135	-3.413	38.051	0.0791	1.200	H
ATOM	249	CG2	VAL	85	49.400	-2.713	40.063	-0.3192	1.700	C
ATOM	250	HG21	VAL	85	49.413	-3.638	40.637	0.0791	1.200	H
ATOM	251	HG22	VAL	85	50.371	-2.227	40.157	0.0791	1.200	H
ATOM	252	HG23	VAL	85	48.638	-2.063	40.484	0.0791	1.200	H
ATOM	253	C	VAL	85	48.968	-2.050	36.301	0.5973	1.700	C
ATOM	254	O	VAL	85	49.970	-2.095	35.577	-0.5679	1.500	O

ATOM	255	N	ASP	86	47.749	-2.260	35.827	-0.5163	1.550	N
ATOM	256	H	ASP	86	46.944	-2.215	36.430	0.2936	1.300	H
ATOM	257	CA	ASP	86	47.571	-2.555	34.429	0.0381	1.700	C
ATOM	258	HA	ASP	86	48.243	-3.372	34.158	0.0880	1.200	H
ATOM	259	CB	ASP	86	46.146	-3.013	34.159	-0.0303	1.700	C
ATOM	260	HB2	ASP	86	45.440	-2.298	34.584	-0.0122	1.200	H
ATOM	261	HB3	ASP	86	45.987	-3.044	33.080	-0.0122	1.200	H
ATOM	262	CG	ASP	86	45.865	-4.406	34.709	0.7994	1.700	C
ATOM	263	OD1	ASP	86	46.821	-5.094	35.122	-0.8014	1.500	O
ATOM	264	OD2	ASP	86	44.687	-4.832	34.721	-0.8014	1.500	O
ATOM	265	C	ASP	86	47.956	-1.375	33.546	0.5366	1.700	C
ATOM	266	O	ASP	86	48.619	-1.567	32.532	-0.5819	1.500	O
ATOM	267	N	LEU	87	47.577	-0.155	33.921	-0.4157	1.550	N
ATOM	268	H	LEU	87	47.051	-0.026	34.773	0.2719	1.300	H
ATOM	269	CA	LEU	87	47.928	1.014	33.120	-0.0518	1.700	C
ATOM	270	HA	LEU	87	47.546	0.871	32.111	0.0922	1.200	H
ATOM	271	CB	LEU	87	47.331	2.300	33.691	-0.1102	1.700	C
ATOM	272	HB2	LEU	87	47.467	2.259	34.773	0.0457	1.200	H
ATOM	273	HB3	LEU	87	47.970	3.117	33.349	0.0457	1.200	H
ATOM	274	CG	LEU	87	45.901	2.781	33.425	0.3531	1.700	C
ATOM	275	HG	LEU	87	45.197	2.022	33.768	-0.0361	1.200	H
ATOM	276	CD1	LEU	87	45.671	4.062	34.218	-0.4121	1.700	C
ATOM	277	HD11	LEU	87	44.653	4.413	34.057	0.1000	1.200	H
ATOM	278	HD12	LEU	87	45.807	3.870	35.282	0.1000	1.200	H
ATOM	279	HD13	LEU	87	46.369	4.838	33.902	0.1000	1.200	H
ATOM	280	CD2	LEU	87	45.677	3.022	31.935	-0.4121	1.700	C
ATOM	281	HD21	LEU	87	44.661	3.381	31.772	0.1000	1.200	H
ATOM	282	HD22	LEU	87	46.384	3.765	31.562	0.1000	1.200	H
ATOM	283	HD23	LEU	87	45.805	2.092	31.381	0.1000	1.200	H
ATOM	284	C	LEU	87	49.433	1.193	33.036	0.5973	1.700	C
ATOM	285	O	LEU	87	49.952	1.571	31.985	-0.5679	1.500	O
ATOM	286	N	SER	88	50.133	0.951	34.147	-0.4157	1.550	N
ATOM	287	H	SER	88	49.655	0.648	34.984	0.2719	1.300	H
ATOM	288	CA	SER	88	51.587	1.096	34.187	-0.0249	1.700	C
ATOM	289	HA	SER	88	51.841	2.140	33.998	0.0843	1.200	H
ATOM	290	CB	SER	88	52.129	0.703	35.555	0.2117	1.700	C
ATOM	291	HB2	SER	88	51.942	-0.352	35.754	0.0352	1.200	H
ATOM	292	HB3	SER	88	53.198	0.886	35.567	0.0352	1.200	H
ATOM	293	OG	SER	88	51.550	1.485	36.587	-0.6546	1.500	O
ATOM	294	HG	SER	88	50.623	1.234	36.670	0.4275	1.200	H
ATOM	295	C	SER	88	52.247	0.236	33.133	0.5973	1.700	C
ATOM	296	O	SER	88	53.043	0.714	32.337	-0.5679	1.500	O
ATOM	297	N	HIS	89	51.893	-1.041	33.105	-0.4157	1.550	N
ATOM	298	H	HIS	89	51.213	-1.403	33.761	0.2719	1.300	H
ATOM	299	CA	HIS	89	52.499	-1.951	32.144	0.0188	1.700	C
ATOM	300	HA	HIS	89	53.579	-1.795	32.156	0.0881	1.200	H
ATOM	301	CB	HIS	89	52.245	-3.418	32.540	-0.0462	1.700	C
ATOM	302	HB2	HIS	89	51.168	-3.591	32.594	0.0402	1.200	H
ATOM	303	HB3	HIS	89	52.649	-4.064	31.760	0.0402	1.200	H
ATOM	304	CG	HIS	89	52.881	-3.811	33.846	-0.0266	1.700	C
ATOM	305	ND1	HIS	89	52.168	-4.364	34.888	-0.3811	1.550	N
ATOM	306	HD1	HIS	89	51.181	-4.579	34.868	0.3649	1.300	H
ATOM	307	CE1	HIS	89	52.971	-4.550	35.922	0.2057	1.700	C
ATOM	308	HE1	HIS	89	52.688	-4.974	36.875	0.1392	1.200	H
ATOM	309	NE2	HIS	89	54.183	-4.143	35.588	-0.5727	1.550	N
ATOM	310	CD2	HIS	89	54.156	-3.681	34.293	0.1292	1.700	C
ATOM	311	HD2	HIS	89	54.987	-3.264	33.743	0.1147	1.200	H
ATOM	312	C	HIS	89	52.016	-1.644	30.744	0.5973	1.700	C
ATOM	313	O	HIS	89	52.742	-1.826	29.773	-0.5679	1.500	O
ATOM	314	N	PHE	90	50.804	-1.129	30.639	-0.4157	1.550	N
ATOM	315	H	PHE	90	50.236	-0.998	31.464	0.2719	1.300	H
ATOM	316	CA	PHE	90	50.251	-0.785	29.338	-0.0024	1.700	C
ATOM	317	HA	PHE	90	50.300	-1.653	28.679	0.0978	1.200	H
ATOM	318	CB	PHE	90	48.788	-0.374	29.498	-0.0343	1.700	C
ATOM	319	HB2	PHE	90	48.213	-1.251	29.798	0.0295	1.200	H
ATOM	320	HB3	PHE	90	48.693	0.358	30.291	0.0295	1.200	H
ATOM	321	CG	PHE	90	48.177	0.196	28.262	0.0118	1.700	C
ATOM	322	CD1	PHE	90	47.789	-0.628	27.225	-0.1256	1.700	C
ATOM	323	HD1	PHE	90	47.935	-1.697	27.302	0.1330	1.200	H
ATOM	324	CE1	PHE	90	47.214	-0.096	26.080	-0.1704	1.700	C
ATOM	325	HE1	PHE	90	46.925	-0.750	25.270	0.1430	1.200	H
ATOM	326	CZ	PHE	90	47.027	1.275	25.972	-0.1072	1.700	C
ATOM	327	HZ	PHE	90	46.571	1.688	25.085	0.1297	1.200	H
ATOM	328	CE2	PHE	90	47.412	2.106	27.006	-0.1704	1.700	C
ATOM	329	HE2	PHE	90	47.270	3.166	26.965	0.1430	1.200	H
ATOM	330	CD2	PHE	90	47.982	1.567	28.141	-0.1256	1.700	C
ATOM	331	HD2	PHE	90	48.269	2.223	28.949	0.1330	1.200	H

ATOM	332	C	PHE	90	51.073	0.344	28.731	0.5973	1.700	C
ATOM	333	O	PHE	90	51.577	0.221	27.620	-0.5679	1.500	O
ATOM	334	N	LEU	91	51.240	1.426	29.486	-0.4157	1.550	N
ATOM	335	H	LEU	91	50.822	1.453	30.403	0.2719	1.300	H
ATOM	336	CA	LEU	91	52.002	2.591	29.040	-0.0518	1.700	C
ATOM	337	HA	LEU	91	51.642	2.881	28.054	0.0922	1.200	H
ATOM	338	CB	LEU	91	51.807	3.761	30.016	-0.1102	1.700	C
ATOM	339	HB2	LEU	91	52.077	3.407	31.013	0.0457	1.200	H
ATOM	340	HB3	LEU	91	52.509	4.555	29.757	0.0457	1.200	H
ATOM	341	CG	LEU	91	50.397	4.362	30.068	0.3531	1.700	C
ATOM	342	HG	LEU	91	49.671	3.560	30.192	-0.0361	1.200	H
ATOM	343	CD1	LEU	91	50.259	5.278	31.251	-0.4121	1.700	C
ATOM	344	HD11	LEU	91	49.240	5.659	31.306	0.1000	1.200	H
ATOM	345	HD12	LEU	91	50.456	4.690	32.145	0.1000	1.200	H
ATOM	346	HD13	LEU	91	50.954	6.110	31.168	0.1000	1.200	H
ATOM	347	CD2	LEU	91	50.092	5.085	28.758	-0.4121	1.700	C
ATOM	348	HD21	LEU	91	49.082	5.499	28.805	0.1000	1.200	H
ATOM	349	HD22	LEU	91	50.806	5.900	28.604	0.1000	1.200	H
ATOM	350	HD23	LEU	91	50.140	4.393	27.915	0.1000	1.200	H
ATOM	351	C	LEU	91	53.476	2.261	28.887	0.5973	1.700	C
ATOM	352	O	LEU	91	54.207	2.948	28.177	-0.5679	1.500	O
ATOM	353	N	LYS	92	53.932	1.232	29.585	-0.3479	1.550	N
ATOM	354	H	LYS	92	53.314	0.706	30.188	0.2747	1.300	H
ATOM	355	CA	LYS	92	55.321	0.827	29.463	-0.2400	1.700	C
ATOM	356	HA	LYS	92	55.957	1.714	29.479	0.1426	1.200	H
ATOM	357	CB	LYS	92	55.717	-0.093	30.634	-0.0094	1.700	C
ATOM	358	HB2	LYS	92	55.187	0.206	31.529	0.0362	1.200	H
ATOM	359	HB3	LYS	92	55.436	-1.121	30.398	0.0362	1.200	H
ATOM	360	CG	LYS	92	57.203	-0.021	31.013	0.0187	1.700	C
ATOM	361	HG2	LYS	92	57.778	-0.165	30.097	0.0103	1.200	H
ATOM	362	HG3	LYS	92	57.439	0.966	31.413	0.0103	1.200	H
ATOM	363	CD	LYS	92	57.611	-1.098	32.019	-0.0479	1.700	C
ATOM	364	HD2	LYS	92	57.471	-0.727	33.028	0.0621	1.200	H
ATOM	365	HD3	LYS	92	56.985	-1.982	31.888	0.0621	1.200	H
ATOM	366	CE	LYS	92	59.076	-1.536	31.827	-0.0143	1.700	C
ATOM	367	HE2	LYS	92	59.302	-2.320	32.551	0.1135	1.200	H
ATOM	368	HE3	LYS	92	59.187	-1.952	30.825	0.1135	1.200	H
ATOM	369	NZ	LYS	92	60.049	-0.418	32.000	-0.3854	1.550	N
ATOM	370	HZ1	LYS	92	59.959	-0.034	32.931	0.3400	1.300	H
ATOM	371	HZ2	LYS	92	60.991	-0.756	31.860	0.3400	1.300	H
ATOM	372	HZ3	LYS	92	59.853	0.314	31.330	0.3400	1.300	H
ATOM	373	C	LYS	92	55.449	0.125	28.096	0.7341	1.700	C
ATOM	374	O	LYS	92	56.385	0.378	27.345	-0.5894	1.500	O
ATOM	375	N	GLU	93	54.466	-0.711	27.760	-0.5163	1.550	N
ATOM	376	H	GLU	93	53.702	-0.865	28.403	0.2936	1.300	H
ATOM	377	CA	GLU	93	54.450	-1.420	26.480	0.0397	1.700	C
ATOM	378	HA	GLU	93	55.304	-2.095	26.412	0.1105	1.200	H
ATOM	379	CB	GLU	93	53.139	-2.213	26.292	0.0560	1.700	C
ATOM	380	HB2	GLU	93	52.283	-1.555	26.322	-0.0173	1.200	H
ATOM	381	HB3	GLU	93	53.149	-2.630	25.283	-0.0173	1.200	H
ATOM	382	CG	GLU	93	52.915	-3.387	27.270	0.0136	1.700	C
ATOM	383	HG2	GLU	93	53.443	-4.236	26.832	-0.0425	1.200	H
ATOM	384	HG3	GLU	93	53.421	-3.267	28.214	-0.0425	1.200	H
ATOM	385	CD	GLU	93	51.429	-3.834	27.400	0.8054	1.700	C
ATOM	386	OE1	GLU	93	50.630	-3.635	26.446	-0.8188	1.500	O
ATOM	387	OE2	GLU	93	51.061	-4.392	28.467	-0.8188	1.500	O
ATOM	388	C	GLU	93	54.556	-0.338	25.405	0.5366	1.700	C
ATOM	389	O	GLU	93	55.489	-0.337	24.608	-0.5819	1.500	O
ATOM	390	N	LYS	94	53.612	0.602	25.409	-0.3479	1.550	N
ATOM	391	H	LYS	94	52.869	0.551	26.093	0.2747	1.300	H
ATOM	392	CA	LYS	94	53.605	1.710	24.455	-0.2400	1.700	C
ATOM	393	HA	LYS	94	53.877	1.361	23.458	0.1426	1.200	H
ATOM	394	CB	LYS	94	52.225	2.369	24.435	-0.0094	1.700	C
ATOM	395	HB2	LYS	94	51.495	1.658	24.044	0.0362	1.200	H
ATOM	396	HB3	LYS	94	51.933	2.650	25.450	0.0362	1.200	H
ATOM	397	CG	LYS	94	52.266	3.608	23.548	0.0187	1.700	C
ATOM	398	HG2	LYS	94	52.913	4.458	23.706	0.0103	1.200	H
ATOM	399	HG3	LYS	94	52.488	3.270	22.534	0.0103	1.200	H
ATOM	400	CD	LYS	94	50.890	4.266	23.528	-0.0479	1.700	C
ATOM	401	HD2	LYS	94	50.151	3.561	23.144	0.0621	1.200	H
ATOM	402	HD3	LYS	94	50.616	4.559	24.543	0.0621	1.200	H
ATOM	403	CE	LYS	94	50.932	5.505	22.640	-0.0143	1.700	C
ATOM	404	HE2	LYS	94	51.670	6.206	23.033	0.1135	1.200	H
ATOM	405	HE3	LYS	94	51.218	5.215	21.628	0.1135	1.200	H
ATOM	406	NZ	LYS	94	49.605	6.138	22.621	-0.3854	1.550	N
ATOM	407	HZ1	LYS	94	49.634	6.961	22.036	0.3400	1.300	H
ATOM	408	HZ2	LYS	94	48.926	5.487	22.254	0.3400	1.300	H

ATOM	409	HZ3	LYS	94	49.339	6.400	23.560	0.3400	1.300	H
ATOM	410	C	LYS	94	54.634	2.708	24.958	0.7341	1.700	C
ATOM	411	O	LYS	94	54.299	3.869	25.203	-0.5894	1.500	O
ATOM	412	N	GLY	95	55.870	2.234	25.144	-0.4157	1.550	N
ATOM	413	H	GLY	95	56.075	1.273	24.934	0.2719	1.300	H
ATOM	414	CA	GLY	95	56.962	3.044	25.661	-0.0252	1.700	C
ATOM	415	HA2	GLY	95	56.933	2.982	26.750	0.0698	1.200	H
ATOM	416	HA3	GLY	95	57.905	2.606	25.332	0.0698	1.200	H
ATOM	417	C	GLY	95	56.946	4.499	25.256	0.5973	1.700	C
ATOM	418	O	GLY	95	56.684	4.812	24.094	-0.5679	1.500	O
ATOM	419	N	GLY	96	57.208	5.389	26.209	-0.4157	1.550	N
ATOM	420	H	GLY	96	57.426	5.081	27.145	0.2719	1.300	H
ATOM	421	CA	GLY	96	57.210	6.809	25.906	-0.0252	1.700	C
ATOM	422	HA2	GLY	96	58.026	7.020	25.214	0.0698	1.200	H
ATOM	423	HA3	GLY	96	56.268	7.060	25.416	0.0698	1.200	H
ATOM	424	C	GLY	96	57.355	7.708	27.118	0.5973	1.700	C
ATOM	425	O	GLY	96	57.900	8.796	27.005	-0.5679	1.500	O
ATOM	426	N	LEU	97	56.855	7.275	28.272	-0.4157	1.550	N
ATOM	427	H	LEU	97	56.387	6.382	28.318	0.2719	1.300	H
ATOM	428	CA	LEU	97	56.952	8.075	29.488	-0.0518	1.700	C
ATOM	429	HA	LEU	97	56.767	9.121	29.253	0.0922	1.200	H
ATOM	430	CB	LEU	97	55.965	7.589	30.544	-0.1102	1.700	C
ATOM	431	HB2	LEU	97	56.084	6.508	30.637	0.0457	1.200	H
ATOM	432	HB3	LEU	97	56.272	8.012	31.500	0.0457	1.200	H
ATOM	433	CG	LEU	97	54.490	7.890	30.400	0.3531	1.700	C
ATOM	434	HG	LEU	97	54.107	7.419	29.493	-0.0361	1.200	H
ATOM	435	CD1	LEU	97	53.758	7.350	31.599	-0.4121	1.700	C
ATOM	436	HD11	LEU	97	52.691	7.449	31.460	0.1000	1.200	H
ATOM	437	HD12	LEU	97	53.976	6.289	31.721	0.1000	1.200	H
ATOM	438	HD13	LEU	97	54.055	7.878	32.506	0.1000	1.200	H
ATOM	439	CD2	LEU	97	54.306	9.380	30.317	-0.4121	1.700	C
ATOM	440	HD21	LEU	97	53.256	9.602	30.164	0.1000	1.200	H
ATOM	441	HD22	LEU	97	54.640	9.849	31.230	0.1000	1.200	H
ATOM	442	HD23	LEU	97	54.829	9.795	29.461	0.1000	1.200	H
ATOM	443	C	LEU	97	58.324	8.003	30.107	0.5973	1.700	C
ATOM	444	O	LEU	97	58.735	8.899	30.841	-0.5679	1.500	O
ATOM	445	N	GLU	98	59.017	6.907	29.847	-0.5163	1.550	N
ATOM	446	H	GLU	98	58.640	6.203	29.232	0.2936	1.300	H
ATOM	447	CA	GLU	98	60.327	6.691	30.435	0.0397	1.700	C
ATOM	448	HA	GLU	98	60.143	6.601	31.505	0.1105	1.200	H
ATOM	449	CB	GLU	98	60.955	5.413	29.906	0.0560	1.700	C
ATOM	450	HB2	GLU	98	60.166	4.702	29.653	-0.0173	1.200	H
ATOM	451	HB3	GLU	98	61.514	5.603	28.989	-0.0173	1.200	H
ATOM	452	CG	GLU	98	61.855	4.770	30.922	0.0136	1.700	C
ATOM	453	HG2	GLU	98	62.240	3.833	30.516	-0.0425	1.200	H
ATOM	454	HG3	GLU	98	62.702	5.430	31.125	-0.0425	1.200	H
ATOM	455	CD	GLU	98	61.105	4.487	32.185	0.8054	1.700	C
ATOM	456	OE1	GLU	98	60.016	3.856	32.104	-0.8188	1.500	O
ATOM	457	OE2	GLU	98	61.592	4.930	33.244	-0.8188	1.500	O
ATOM	458	C	GLU	98	61.277	7.832	30.223	0.5366	1.700	C
ATOM	459	O	GLU	98	61.594	8.182	29.098	-0.5819	1.500	O
ATOM	460	N	GLY	99	61.715	8.430	31.314	-0.4157	1.550	N
ATOM	461	H	GLY	99	61.419	8.125	32.228	0.2719	1.300	H
ATOM	462	CA	GLY	99	62.634	9.530	31.192	-0.0252	1.700	C
ATOM	463	HA2	GLY	99	62.993	9.778	32.187	0.0698	1.200	H
ATOM	464	HA3	GLY	99	63.482	9.237	30.572	0.0698	1.200	H
ATOM	465	C	GLY	99	61.995	10.771	30.603	0.5973	1.700	C
ATOM	466	O	GLY	99	62.585	11.848	30.715	-0.5679	1.500	O
ATOM	467	N	LEU	100	60.809	10.651	29.995	-0.4157	1.550	N
ATOM	468	H	LEU	100	60.353	9.752	29.953	0.2719	1.300	H
ATOM	469	CA	LEU	100	60.134	11.811	29.418	-0.0518	1.700	C
ATOM	470	HA	LEU	100	60.715	12.152	28.561	0.0922	1.200	H
ATOM	471	CB	LEU	100	58.719	11.449	28.968	-0.1102	1.700	C
ATOM	472	HB2	LEU	100	58.816	10.668	28.221	0.0457	1.200	H
ATOM	473	HB3	LEU	100	58.183	11.034	29.814	0.0457	1.200	H
ATOM	474	CG	LEU	100	57.858	12.580	28.385	0.3531	1.700	C
ATOM	475	HG	LEU	100	57.769	13.381	29.118	-0.0361	1.200	H
ATOM	476	CD1	LEU	100	58.483	13.131	27.138	-0.4121	1.700	C
ATOM	477	HD11	LEU	100	57.820	13.865	26.682	0.1000	1.200	H
ATOM	478	HD12	LEU	100	59.440	13.598	27.361	0.1000	1.200	H
ATOM	479	HD13	LEU	100	58.646	12.326	26.419	0.1000	1.200	H
ATOM	480	CD2	LEU	100	56.465	12.083	28.069	-0.4121	1.700	C
ATOM	481	HD21	LEU	100	55.850	12.901	27.695	0.1000	1.200	H
ATOM	482	HD22	LEU	100	56.508	11.292	27.319	0.1000	1.200	H
ATOM	483	HD23	LEU	100	56.004	11.682	28.967	0.1000	1.200	H
ATOM	484	C	LEU	100	60.096	12.902	30.483	0.5973	1.700	C
ATOM	485	O	LEU	100	59.827	12.627	31.652	-0.5679	1.500	O

ATOM	486	N	ILE	101	60.455	14.122	30.103	-0.4157	1.550	N
ATOM	487	H	ILE	101	60.768	14.283	29.159	0.2719	1.300	H
ATOM	488	CA	ILE	101	60.466	15.225	31.057	-0.0597	1.700	C
ATOM	489	HA	ILE	101	61.033	14.912	31.932	0.0869	1.200	H
ATOM	490	CB	ILE	101	61.102	16.494	30.467	0.1303	1.700	C
ATOM	491	HB	ILE	101	60.514	16.847	29.623	0.0187	1.200	H
ATOM	492	CG2	ILE	101	61.129	17.599	31.530	-0.3204	1.700	C
ATOM	493	HG21	ILE	101	61.716	18.440	31.161	0.0882	1.200	H
ATOM	494	HG22	ILE	101	60.126	17.964	31.725	0.0882	1.200	H
ATOM	495	HG23	ILE	101	61.573	17.244	32.459	0.0882	1.200	H
ATOM	496	CG1	ILE	101	62.523	16.202	29.956	-0.0430	1.700	C
ATOM	497	HG12	ILE	101	62.514	15.349	29.278	0.0236	1.200	H
ATOM	498	HG13	ILE	101	62.870	17.057	29.374	0.0236	1.200	H
ATOM	499	CD1	ILE	101	63.531	15.944	31.055	-0.0660	1.700	C
ATOM	500	HD11	ILE	101	64.361	15.355	30.662	0.0186	1.200	H
ATOM	501	HD12	ILE	101	63.924	16.897	31.413	0.0186	1.200	H
ATOM	502	HD13	ILE	101	63.092	15.431	31.900	0.0186	1.200	H
ATOM	503	C	ILE	101	59.048	15.548	31.482	0.5973	1.700	C
ATOM	504	O	ILE	101	58.179	15.763	30.658	-0.5679	1.500	O
ATOM	505	N	HIS	102	58.806	15.531	32.780	-0.4157	1.550	N
ATOM	506	H	HIS	102	59.518	15.236	33.422	0.2719	1.300	H
ATOM	507	CA	HIS	102	57.488	15.827	33.286	-0.0581	1.700	C
ATOM	508	HA	HIS	102	56.767	15.183	32.779	0.1360	1.200	H
ATOM	509	CB	HIS	102	57.401	15.567	34.782	-0.0074	1.700	C
ATOM	510	HB2	HIS	102	57.787	14.568	34.989	0.0367	1.200	H
ATOM	511	HB3	HIS	102	58.029	16.288	35.304	0.0367	1.200	H
ATOM	512	CG	HIS	102	56.010	15.646	35.317	0.1868	1.700	C
ATOM	513	ND1	HIS	102	55.621	16.570	36.260	-0.5432	1.550	N
ATOM	514	CE1	HIS	102	54.346	16.387	36.553	0.1635	1.700	C
ATOM	515	HE1	HIS	102	53.757	16.989	37.230	0.1435	1.200	H
ATOM	516	NE2	HIS	102	53.896	15.380	35.829	-0.2795	1.550	N
ATOM	517	HE2	HIS	102	52.947	15.109	35.742	0.3339	1.300	H
ATOM	518	CD2	HIS	102	54.913	14.901	35.047	-0.2207	1.700	C
ATOM	519	HD2	HIS	102	54.863	14.083	34.352	0.1862	1.200	H
ATOM	520	C	HIS	102	57.148	17.270	33.037	0.5973	1.700	C
ATOM	521	O	HIS	102	58.019	18.128	33.043	-0.5679	1.500	O
ATOM	522	N	SER	103	55.848	17.517	32.942	-0.4157	1.550	N
ATOM	523	H	SER	103	55.209	16.739	33.032	0.2719	1.300	H
ATOM	524	CA	SER	103	55.248	18.824	32.715	-0.0249	1.700	C
ATOM	525	HA	SER	103	55.712	19.586	33.344	0.0843	1.200	H
ATOM	526	CB	SER	103	55.375	19.187	31.232	0.2117	1.700	C
ATOM	527	HB2	SER	103	56.410	19.429	30.989	0.0352	1.200	H
ATOM	528	HB3	SER	103	55.043	18.338	30.681	0.0352	1.200	H
ATOM	529	OG	SER	103	54.516	20.256	30.872	-0.6546	1.500	O
ATOM	530	HG	SER	103	54.769	20.573	30.001	0.4275	1.200	H
ATOM	531	C	SER	103	53.776	18.627	33.076	0.5973	1.700	C
ATOM	532	O	SER	103	53.125	17.704	32.569	-0.5679	1.500	O
ATOM	533	N	GLN	104	53.250	19.449	33.970	-0.4157	1.550	N
ATOM	534	H	GLN	104	53.805	20.178	34.393	0.2719	1.300	H
ATOM	535	CA	GLN	104	51.849	19.312	34.349	-0.0031	1.700	C
ATOM	536	HA	GLN	104	51.752	18.391	34.925	0.0850	1.200	H
ATOM	537	CB	GLN	104	51.399	20.499	35.188	-0.0036	1.700	C
ATOM	538	HB2	GLN	104	52.129	20.674	35.980	0.0171	1.200	H
ATOM	539	HB3	GLN	104	51.373	21.395	34.566	0.0171	1.200	H
ATOM	540	CG	GLN	104	50.040	20.303	35.814	-0.0645	1.700	C
ATOM	541	HG2	GLN	104	49.786	21.182	36.407	0.0352	1.200	H
ATOM	542	HG3	GLN	104	49.287	20.203	35.032	0.0352	1.200	H
ATOM	543	CD	GLN	104	50.023	19.094	36.709	0.6951	1.700	C
ATOM	544	OE1	GLN	104	51.010	18.806	37.388	-0.6086	1.500	O
ATOM	545	NE2	GLN	104	48.913	18.365	36.711	-0.9407	1.550	N
ATOM	546	HE21	GLN	104	48.852	17.541	37.288	0.4251	1.300	H
ATOM	547	HE22	GLN	104	48.149	18.596	36.087	0.4251	1.300	H
ATOM	548	C	GLN	104	50.967	19.203	33.102	0.5973	1.700	C
ATOM	549	O	GLN	104	50.020	18.422	33.056	-0.5679	1.500	O
ATOM	550	N	ARG	105	51.302	19.971	32.081	-0.3479	1.550	N
ATOM	551	H	ARG	105	52.099	20.586	32.161	0.2747	1.300	H
ATOM	552	CA	ARG	105	50.551	19.951	30.846	-0.2637	1.700	C
ATOM	553	HA	ARG	105	49.499	20.134	31.074	0.1560	1.200	H
ATOM	554	CB	ARG	105	51.092	21.021	29.915	-0.0007	1.700	C
ATOM	555	HB2	ARG	105	51.846	21.614	30.438	0.0327	1.200	H
ATOM	556	HB3	ARG	105	51.599	20.574	29.058	0.0327	1.200	H
ATOM	557	CG	ARG	105	50.067	21.973	29.418	0.0390	1.700	C
ATOM	558	HG2	ARG	105	49.641	22.402	30.317	0.0285	1.200	H
ATOM	559	HG3	ARG	105	50.581	22.764	28.869	0.0285	1.200	H
ATOM	560	CD	ARG	105	49.090	21.311	28.507	0.0486	1.700	C
ATOM	561	HD2	ARG	105	49.638	20.774	27.737	0.0687	1.200	H
ATOM	562	HD3	ARG	105	48.463	20.611	29.062	0.0687	1.200	H

ATOM	563	NE	ARG	105	48.260	22.318	27.866	-0.5295	1.550	N
ATOM	564	HE	ARG	105	48.247	22.338	26.858	0.3456	1.300	H
ATOM	565	CZ	ARG	105	47.517	23.201	28.522	0.8076	1.700	C
ATOM	566	NH1	ARG	105	47.486	23.208	29.845	-0.8627	1.550	N
ATOM	567	HH11	ARG	105	48.039	22.573	30.391	0.4478	1.300	H
ATOM	568	HH12	ARG	105	46.842	23.816	30.331	0.4478	1.300	H
ATOM	569	NH2	ARG	105	46.807	24.092	27.847	-0.8627	1.550	N
ATOM	570	HH21	ARG	105	46.227	24.741	28.358	0.4478	1.300	H
ATOM	571	HH22	ARG	105	46.817	24.102	26.840	0.4478	1.300	H
ATOM	572	C	ARG	105	50.684	18.595	30.168	0.7341	1.700	C
ATOM	573	O	ARG	105	49.698	18.025	29.690	-0.5894	1.500	O
ATOM	574	N	ARG	106	51.916	18.098	30.094	-0.3479	1.550	N
ATOM	575	H	ARG	106	52.682	18.590	30.530	0.2747	1.300	H
ATOM	576	CA	ARG	106	52.176	16.812	29.466	-0.2637	1.700	C
ATOM	577	HA	ARG	106	51.842	16.841	28.428	0.1560	1.200	H
ATOM	578	CB	ARG	106	53.669	16.490	29.501	-0.0007	1.700	C
ATOM	579	HB2	ARG	106	54.064	16.621	30.503	0.0327	1.200	H
ATOM	580	HB3	ARG	106	53.779	15.426	29.282	0.0327	1.200	H
ATOM	581	CG	ARG	106	54.464	17.219	28.454	0.0390	1.700	C
ATOM	582	HG2	ARG	106	54.198	16.803	27.480	0.0285	1.200	H
ATOM	583	HG3	ARG	106	54.211	18.280	28.455	0.0285	1.200	H
ATOM	584	CD	ARG	106	55.933	17.074	28.687	0.0486	1.700	C
ATOM	585	HD2	ARG	106	56.334	17.805	29.376	0.0687	1.200	H
ATOM	586	HD3	ARG	106	56.112	16.076	29.090	0.0687	1.200	H
ATOM	587	NE	ARG	106	56.670	17.218	27.442	-0.5295	1.550	N
ATOM	588	HE	ARG	106	56.208	17.693	26.681	0.3456	1.300	H
ATOM	589	CZ	ARG	106	57.883	16.714	27.229	0.8076	1.700	C
ATOM	590	NH1	ARG	106	58.506	16.045	28.187	-0.8627	1.550	N
ATOM	591	HH11	ARG	106	59.431	15.670	28.053	0.4478	1.300	H
ATOM	592	HH12	ARG	106	58.005	15.874	29.029	0.4478	1.300	H
ATOM	593	NH2	ARG	106	58.436	16.784	26.022	-0.8627	1.550	N
ATOM	594	HH21	ARG	106	59.337	16.360	25.859	0.4478	1.300	H
ATOM	595	HH22	ARG	106	57.955	17.251	25.268	0.4478	1.300	H
ATOM	596	C	ARG	106	51.379	15.734	30.179	0.7341	1.700	C
ATOM	597	O	ARG	106	50.772	14.876	29.540	-0.5894	1.500	O
ATOM	598	N	GLN	107	51.323	15.829	31.502	-0.4157	1.550	N
ATOM	599	H	GLN	107	51.795	16.582	31.977	0.2719	1.300	H
ATOM	600	CA	GLN	107	50.592	14.860	32.294	-0.0031	1.700	C
ATOM	601	HA	GLN	107	50.846	13.861	31.939	0.0850	1.200	H
ATOM	602	CB	GLN	107	50.986	14.947	33.756	-0.0036	1.700	C
ATOM	603	HB2	GLN	107	52.061	14.797	33.841	0.0171	1.200	H
ATOM	604	HB3	GLN	107	50.756	15.951	34.119	0.0171	1.200	H
ATOM	605	CG	GLN	107	50.270	13.952	34.601	-0.0645	1.700	C
ATOM	606	HG2	GLN	107	49.197	13.972	34.420	0.0352	1.200	H
ATOM	607	HG3	GLN	107	50.626	12.952	34.371	0.0352	1.200	H
ATOM	608	CD	GLN	107	50.461	14.238	36.033	0.6951	1.700	C
ATOM	609	OE1	GLN	107	51.537	14.621	36.440	-0.6086	1.500	O
ATOM	610	NE2	GLN	107	49.408	14.113	36.815	-0.9407	1.550	N
ATOM	611	HE21	GLN	107	48.533	13.773	36.436	0.4251	1.300	H
ATOM	612	HE22	GLN	107	49.473	14.339	37.795	0.4251	1.300	H
ATOM	613	C	GLN	107	49.089	15.032	32.174	0.5973	1.700	C
ATOM	614	O	GLN	107	48.376	14.036	32.098	-0.5679	1.500	O
ATOM	615	N	ASP	108	48.607	16.280	32.206	-0.5163	1.550	N
ATOM	616	H	ASP	108	49.241	17.057	32.278	0.2936	1.300	H
ATOM	617	CA	ASP	108	47.171	16.583	32.090	0.0381	1.700	C
ATOM	618	HA	ASP	108	46.624	16.092	32.897	0.0880	1.200	H
ATOM	619	CB	ASP	108	46.908	18.087	32.107	-0.0303	1.700	C
ATOM	620	HB2	ASP	108	47.607	18.604	31.448	-0.0122	1.200	H
ATOM	621	HB3	ASP	108	45.892	18.245	31.748	-0.0122	1.200	H
ATOM	622	CG	ASP	108	46.957	18.683	33.489	0.7994	1.700	C
ATOM	623	OD1	ASP	108	46.963	17.920	34.473	-0.8014	1.500	O
ATOM	624	OD2	ASP	108	46.979	19.928	33.594	-0.8014	1.500	O
ATOM	625	C	ASP	108	46.668	16.029	30.779	0.5366	1.700	C
ATOM	626	O	ASP	108	45.539	15.550	30.696	-0.5819	1.500	O
ATOM	627	N	ILE	109	47.506	16.123	29.753	-0.4157	1.550	N
ATOM	628	H	ILE	109	48.412	16.547	29.893	0.2719	1.300	H
ATOM	629	CA	ILE	109	47.181	15.605	28.442	-0.0597	1.700	C
ATOM	630	HA	ILE	109	46.222	16.012	28.116	0.0869	1.200	H
ATOM	631	CB	ILE	109	48.262	16.001	27.460	0.1303	1.700	C
ATOM	632	HB	ILE	109	49.230	15.682	27.835	0.0187	1.200	H
ATOM	633	CG2	ILE	109	48.042	15.342	26.126	-0.3204	1.700	C
ATOM	634	HG21	ILE	109	47.090	15.658	25.697	0.0882	1.200	H
ATOM	635	HG22	ILE	109	48.848	15.589	25.438	0.0882	1.200	H
ATOM	636	HG23	ILE	109	48.047	14.257	26.215	0.0882	1.200	H
ATOM	637	CG1	ILE	109	48.273	17.526	27.328	-0.0430	1.700	C
ATOM	638	HG12	ILE	109	47.365	17.766	26.771	0.0236	1.200	H
ATOM	639	HG13	ILE	109	48.088	18.096	28.222	0.0236	1.200	H

ATOM	640	CD1	ILE	109	49.386	18.066	26.458	-0.0660	1.700	C
ATOM	641	HD11	ILE	109	49.298	17.704	25.434	0.0186	1.200	H
ATOM	642	HD12	ILE	109	49.315	19.151	26.423	0.0186	1.200	H
ATOM	643	HD13	ILE	109	50.355	17.782	26.871	0.0186	1.200	H
ATOM	644	C	ILE	109	47.069	14.083	28.533	0.5973	1.700	C
ATOM	645	O	ILE	109	46.086	13.492	28.068	-0.5679	1.500	O
ATOM	646	N	LEU	110	48.055	13.465	29.187	-0.4157	1.550	N
ATOM	647	H	LEU	110	48.805	14.015	29.582	0.2719	1.300	H
ATOM	648	CA	LEU	110	48.099	12.018	29.380	-0.0518	1.700	C
ATOM	649	HA	LEU	110	48.167	11.539	28.402	0.0922	1.200	H
ATOM	650	CB	LEU	110	49.324	11.622	30.229	-0.1102	1.700	C
ATOM	651	HB2	LEU	110	50.113	12.346	30.024	0.0457	1.200	H
ATOM	652	HB3	LEU	110	49.074	11.756	31.282	0.0457	1.200	H
ATOM	653	CG	LEU	110	50.008	10.236	30.103	0.3531	1.700	C
ATOM	654	HG	LEU	110	50.635	10.235	29.210	-0.0361	1.200	H
ATOM	655	CD1	LEU	110	50.883	9.980	31.313	-0.4121	1.700	C
ATOM	656	HD11	LEU	110	51.343	9.006	31.223	0.1000	1.200	H
ATOM	657	HD12	LEU	110	51.653	10.748	31.388	0.1000	1.200	H
ATOM	658	HD13	LEU	110	50.280	9.993	32.222	0.1000	1.200	H
ATOM	659	CD2	LEU	110	49.004	9.111	29.970	-0.4121	1.700	C
ATOM	660	HD21	LEU	110	49.503	8.142	29.991	0.1000	1.200	H
ATOM	661	HD22	LEU	110	48.352	9.235	30.821	0.1000	1.200	H
ATOM	662	HD23	LEU	110	48.440	9.206	29.043	0.1000	1.200	H
ATOM	663	C	LEU	110	46.837	11.546	30.094	0.5973	1.700	C
ATOM	664	O	LEU	110	46.174	10.598	29.657	-0.5679	1.500	O
ATOM	665	N	ASP	111	46.498	12.203	31.192	-0.5163	1.550	N
ATOM	666	H	ASP	111	47.060	12.969	31.528	0.2936	1.300	H
ATOM	667	CA	ASP	111	45.329	11.808	31.956	0.0381	1.700	C
ATOM	668	HA	ASP	111	45.431	10.748	32.195	0.0880	1.200	H
ATOM	669	CB	ASP	111	45.271	12.565	33.261	-0.0303	1.700	C
ATOM	670	HB2	ASP	111	45.270	13.639	33.066	-0.0122	1.200	H
ATOM	671	HB3	ASP	111	44.351	12.304	33.782	-0.0122	1.200	H
ATOM	672	CG	ASP	111	46.415	12.216	34.164	0.7994	1.700	C
ATOM	673	OD1	ASP	111	47.179	11.305	33.818	-0.8014	1.500	O
ATOM	674	OD2	ASP	111	46.557	12.849	35.217	-0.8014	1.500	O
ATOM	675	C	ASP	111	44.025	11.944	31.228	0.5366	1.700	C
ATOM	676	O	ASP	111	43.135	11.119	31.406	-0.5819	1.500	O
ATOM	677	N	LEU	112	43.906	12.973	30.398	-0.4157	1.550	N
ATOM	678	H	LEU	112	44.662	13.639	30.305	0.2719	1.300	H
ATOM	679	CA	LEU	112	42.678	13.178	29.646	-0.0518	1.700	C
ATOM	680	HA	LEU	112	41.832	13.073	30.323	0.0922	1.200	H
ATOM	681	CB	LEU	112	42.652	14.557	28.983	-0.1102	1.700	C
ATOM	682	HB2	LEU	112	43.577	14.666	28.414	0.0457	1.200	H
ATOM	683	HB3	LEU	112	41.832	14.569	28.262	0.0457	1.200	H
ATOM	684	CG	LEU	112	42.493	15.776	29.890	0.3531	1.700	C
ATOM	685	HG	LEU	112	43.206	15.731	30.703	-0.0361	1.200	H
ATOM	686	CD1	LEU	112	42.721	17.022	29.065	-0.4121	1.700	C
ATOM	687	HD11	LEU	112	42.602	17.909	29.689	0.1000	1.200	H
ATOM	688	HD12	LEU	112	43.736	17.017	28.667	0.1000	1.200	H
ATOM	689	HD13	LEU	112	42.024	17.056	28.236	0.1000	1.200	H
ATOM	690	CD2	LEU	112	41.105	15.781	30.529	-0.4121	1.700	C
ATOM	691	HD21	LEU	112	41.136	16.396	31.432	0.1000	1.200	H
ATOM	692	HD22	LEU	112	40.373	16.208	29.840	0.1000	1.200	H
ATOM	693	HD23	LEU	112	40.771	14.785	30.813	0.1000	1.200	H
ATOM	694	C	LEU	112	42.566	12.089	28.606	0.5973	1.700	C
ATOM	695	O	LEU	112	41.471	11.594	28.349	-0.5679	1.500	O
ATOM	696	N	TRP	113	43.694	11.697	28.025	-0.4157	1.550	N
ATOM	697	H	TRP	113	44.572	12.126	28.287	0.2719	1.300	H
ATOM	698	CA	TRP	113	43.703	10.637	27.022	-0.0275	1.700	C
ATOM	699	HA	TRP	113	43.040	10.922	26.204	0.1123	1.200	H
ATOM	700	CB	TRP	113	45.120	10.456	26.457	-0.0050	1.700	C
ATOM	701	HB2	TRP	113	45.427	11.390	25.984	0.0339	1.200	H
ATOM	702	HB3	TRP	113	45.820	10.254	27.262	0.0339	1.200	H
ATOM	703	CG	TRP	113	45.242	9.355	25.449	-0.1415	1.700	C
ATOM	704	CD1	TRP	113	44.892	9.396	24.125	-0.1638	1.700	C
ATOM	705	HD1	TRP	113	44.490	10.265	23.623	0.2062	1.200	H
ATOM	706	NE1	TRP	113	45.102	8.174	23.542	-0.3418	1.550	N
ATOM	707	HE1	TRP	113	44.890	7.963	22.578	0.3412	1.300	H
ATOM	708	CE2	TRP	113	45.600	7.317	24.487	0.1380	1.700	C
ATOM	709	CZ2	TRP	113	45.962	5.979	24.380	-0.2601	1.700	C
ATOM	710	HZ2	TRP	113	45.875	5.450	23.442	0.1572	1.200	H
ATOM	711	CH2	TRP	113	46.437	5.357	25.506	-0.1134	1.700	C
ATOM	712	HH2	TRP	113	46.720	4.325	25.421	0.1417	1.200	H
ATOM	713	CZ3	TRP	113	46.557	6.040	26.723	-0.1972	1.700	C
ATOM	714	HZ3	TRP	113	46.972	5.532	27.582	0.1447	1.200	H
ATOM	715	CE3	TRP	113	46.196	7.372	26.830	-0.2387	1.700	C
ATOM	716	HE3	TRP	113	46.382	7.941	27.713	0.1700	1.200	H

ATOM	717	CD2	TRP	113	45.706	8.030	25.697	0.1243	1.700	C
ATOM	718	C	TRP	113	43.177	9.333	27.642	0.5973	1.700	C
ATOM	719	O	TRP	113	42.280	8.704	27.102	-0.5679	1.500	O
ATOM	720	N	ILE	114	43.681	8.977	28.816	-0.4157	1.550	N
ATOM	721	H	ILE	114	44.392	9.556	29.244	0.2719	1.300	H
ATOM	722	CA	ILE	114	43.258	7.763	29.527	-0.0597	1.700	C
ATOM	723	HA	ILE	114	43.377	6.906	28.862	0.0869	1.200	H
ATOM	724	CB	ILE	114	44.145	7.541	30.777	0.1303	1.700	C
ATOM	725	HB	ILE	114	44.133	8.473	31.347	0.0187	1.200	H
ATOM	726	CG2	ILE	114	43.579	6.451	31.705	-0.3204	1.700	C
ATOM	727	HG21	ILE	114	44.258	6.279	32.537	0.0882	1.200	H
ATOM	728	HG22	ILE	114	42.626	6.767	32.122	0.0882	1.200	H
ATOM	729	HG23	ILE	114	43.454	5.522	31.150	0.0882	1.200	H
ATOM	730	CG1	ILE	114	45.589	7.286	30.335	-0.0430	1.700	C
ATOM	731	HG12	ILE	114	45.707	6.267	29.965	0.0236	1.200	H
ATOM	732	HG13	ILE	114	45.842	8.003	29.577	0.0236	1.200	H
ATOM	733	CD1	ILE	114	46.592	7.581	31.432	-0.0660	1.700	C
ATOM	734	HD11	ILE	114	47.580	7.300	31.087	0.0186	1.200	H
ATOM	735	HD12	ILE	114	46.527	8.620	31.753	0.0186	1.200	H
ATOM	736	HD13	ILE	114	46.387	6.923	32.271	0.0186	1.200	H
ATOM	737	C	ILE	114	41.789	7.843	29.940	0.5973	1.700	C
ATOM	738	O	ILE	114	41.086	6.831	29.979	-0.5679	1.500	O
ATOM	739	N	TYR	115	41.334	9.041	30.282	-0.4157	1.550	N
ATOM	740	H	TYR	115	41.957	9.837	30.272	0.2719	1.300	H
ATOM	741	CA	TYR	115	39.946	9.259	30.670	-0.0014	1.700	C
ATOM	742	HA	TYR	115	39.717	8.599	31.504	0.0876	1.200	H
ATOM	743	CB	TYR	115	39.760	10.713	31.098	-0.0152	1.700	C
ATOM	744	HB2	TYR	115	40.446	10.890	31.916	0.0295	1.200	H
ATOM	745	HB3	TYR	115	40.083	11.361	30.291	0.0295	1.200	H
ATOM	746	CG	TYR	115	38.346	11.101	31.430	-0.0011	1.700	C
ATOM	747	CD1	TYR	115	37.479	10.202	32.030	-0.1906	1.700	C
ATOM	748	HD1	TYR	115	37.805	9.203	32.277	0.1699	1.200	H
ATOM	749	CE1	TYR	115	36.188	10.559	32.347	-0.2341	1.700	C
ATOM	750	HE1	TYR	115	35.531	9.846	32.823	0.1656	1.200	H
ATOM	751	CZ	TYR	115	35.749	11.838	32.066	0.3226	1.700	C
ATOM	752	OH	TYR	115	34.455	12.214	32.394	-0.5579	1.500	O
ATOM	753	HH	TYR	115	33.950	11.503	32.794	0.3992	1.200	H
ATOM	754	CE2	TYR	115	36.600	12.747	31.465	-0.2341	1.700	C
ATOM	755	HE2	TYR	115	36.247	13.738	31.243	0.1656	1.200	H
ATOM	756	CD2	TYR	115	37.883	12.373	31.152	-0.1906	1.700	C
ATOM	757	HD2	TYR	115	38.541	13.093	30.686	0.1699	1.200	H
ATOM	758	C	TYR	115	39.013	8.929	29.499	0.5973	1.700	C
ATOM	759	O	TYR	115	38.077	8.157	29.663	-0.5679	1.500	O
ATOM	760	N	HIS	116	39.285	9.499	28.324	-0.4157	1.550	N
ATOM	761	H	HIS	116	40.076	10.125	28.246	0.2719	1.300	H
ATOM	762	CA	HIS	116	38.466	9.273	27.131	-0.0581	1.700	C
ATOM	763	HA	HIS	116	37.542	9.554	27.496	0.1360	1.200	H
ATOM	764	CB	HIS	116	38.913	10.203	25.986	-0.0074	1.700	C
ATOM	765	HB2	HIS	116	38.552	11.212	26.189	0.0367	1.200	H
ATOM	766	HB3	HIS	116	40.004	10.241	25.968	0.0367	1.200	H
ATOM	767	CG	HIS	116	38.460	9.766	24.615	0.1868	1.700	C
ATOM	768	ND1	HIS	116	38.933	8.803	23.777	-0.5432	1.550	N
ATOM	769	CE1	HIS	116	38.171	8.844	22.632	0.1635	1.700	C
ATOM	770	HE1	HIS	116	38.290	8.200	21.776	0.1435	1.200	H
ATOM	771	NE2	HIS	116	37.262	9.797	22.760	-0.2795	1.550	N
ATOM	772	HE2	HIS	116	36.555	10.027	22.077	0.3339	1.300	H
ATOM	773	CD2	HIS	116	37.413	10.368	23.946	-0.2207	1.700	C
ATOM	774	HD2	HIS	116	36.814	11.180	24.332	0.1862	1.200	H
ATOM	775	C	HIS	116	38.581	7.843	26.661	0.5973	1.700	C
ATOM	776	O	HIS	116	37.592	7.226	26.295	-0.5679	1.500	O
ATOM	777	N	THR	117	39.827	7.392	26.570	-0.4157	1.550	N
ATOM	778	H	THR	117	40.569	8.017	26.848	0.2719	1.300	H
ATOM	779	CA	THR	117	40.230	6.063	26.118	-0.0389	1.700	C
ATOM	780	HA	THR	117	39.774	5.900	25.140	0.1007	1.200	H
ATOM	781	CB	THR	117	41.740	6.091	25.928	0.3654	1.700	C
ATOM	782	HB	THR	117	42.216	6.535	26.790	0.0043	1.200	H
ATOM	783	CG2	THR	117	42.337	4.739	25.837	-0.2438	1.700	C
ATOM	784	HG21	THR	117	43.152	4.638	26.543	0.0642	1.200	H
ATOM	785	HG22	THR	117	41.624	3.931	25.831	0.0642	1.200	H
ATOM	786	HG23	THR	117	42.832	4.638	24.869	0.0642	1.200	H
ATOM	787	OG1	THR	117	42.015	6.790	24.722	-0.6761	1.500	O
ATOM	788	HG1	THR	117	42.793	7.335	24.870	0.4102	1.200	H
ATOM	789	C	THR	117	39.816	4.877	26.993	0.5973	1.700	C
ATOM	790	O	THR	117	39.170	3.942	26.514	-0.5679	1.500	O
ATOM	791	N	GLN	118	40.174	4.938	28.270	-0.4157	1.550	N
ATOM	792	H	GLN	118	40.689	5.738	28.601	0.2719	1.300	H
ATOM	793	CA	GLN	118	39.872	3.879	29.206	-0.0031	1.700	C

ATOM	794	HA	GLN	118	39.441	3.048	28.653	0.0850	1.200	H
ATOM	795	CB	GLN	118	41.170	3.383	29.819	-0.0036	1.700	C
ATOM	796	HB2	GLN	118	41.576	4.157	30.470	0.0171	1.200	H
ATOM	797	HB3	GLN	118	40.968	2.505	30.433	0.0171	1.200	H
ATOM	798	CG	GLN	118	42.219	3.026	28.772	-0.0645	1.700	C
ATOM	799	HG2	GLN	118	42.540	3.931	28.291	0.0352	1.200	H
ATOM	800	HG3	GLN	118	43.096	2.642	29.296	0.0352	1.200	H
ATOM	801	CD	GLN	118	41.761	1.947	27.802	0.6951	1.700	C
ATOM	802	OE1	GLN	118	40.821	1.208	28.074	-0.6086	1.500	O
ATOM	803	NE2	GLN	118	42.456	1.829	26.679	-0.9407	1.550	N
ATOM	804	HE21	GLN	118	43.246	2.432	26.506	0.4251	1.300	H
ATOM	805	HE22	GLN	118	42.202	1.109	26.018	0.4251	1.300	H
ATOM	806	C	GLN	118	38.816	4.165	30.289	0.5973	1.700	C
ATOM	807	O	GLN	118	38.381	3.244	30.976	-0.5679	1.500	O
ATOM	808	N	GLY	119	38.437	5.421	30.502	-0.4157	1.550	N
ATOM	809	H	GLY	119	38.803	6.178	29.940	0.2719	1.300	H
ATOM	810	CA	GLY	119	37.373	5.682	31.457	-0.0252	1.700	C
ATOM	811	HA2	GLY	119	36.812	6.543	31.095	0.0698	1.200	H
ATOM	812	HA3	GLY	119	36.677	4.847	31.455	0.0698	1.200	H
ATOM	813	C	GLY	119	37.723	5.957	32.898	0.5973	1.700	C
ATOM	814	O	GLY	119	36.858	5.943	33.781	-0.5679	1.500	O
ATOM	815	N	TYR	120	38.992	6.226	33.156	-0.4157	1.550	N
ATOM	816	H	TYR	120	39.672	6.229	32.410	0.2719	1.300	H
ATOM	817	CA	TYR	120	39.432	6.520	34.511	-0.0014	1.700	C
ATOM	818	HA	TYR	120	38.762	6.071	35.244	0.0876	1.200	H
ATOM	819	CB	TYR	120	40.829	5.955	34.733	-0.0152	1.700	C
ATOM	820	HB2	TYR	120	41.524	6.397	34.021	0.0295	1.200	H
ATOM	821	HB3	TYR	120	41.160	6.230	35.735	0.0295	1.200	H
ATOM	822	CG	TYR	120	40.857	4.456	34.614	-0.0011	1.700	C
ATOM	823	CD1	TYR	120	40.099	3.678	35.482	-0.1906	1.700	C
ATOM	824	HD1	TYR	120	39.557	4.155	36.283	0.1699	1.200	H
ATOM	825	CE1	TYR	120	40.059	2.308	35.365	-0.2341	1.700	C
ATOM	826	HE1	TYR	120	39.462	1.719	36.040	0.1656	1.200	H
ATOM	827	CZ	TYR	120	40.781	1.692	34.370	0.3226	1.700	C
ATOM	828	OH	TYR	120	40.679	0.329	34.290	-0.5579	1.500	O
ATOM	829	HH	TYR	120	40.091	-0.033	34.956	0.3992	1.200	H
ATOM	830	CE2	TYR	120	41.562	2.432	33.479	-0.2341	1.700	C
ATOM	831	HE2	TYR	120	42.122	1.937	32.699	0.1656	1.200	H
ATOM	832	CD2	TYR	120	41.597	3.812	33.607	-0.1906	1.700	C
ATOM	833	HD2	TYR	120	42.196	4.392	32.924	0.1699	1.200	H
ATOM	834	C	TYR	120	39.430	8.029	34.690	0.5973	1.700	C
ATOM	835	O	TYR	120	40.177	8.742	34.006	-0.5679	1.500	O
ATOM	836	N	PHE	121	38.535	8.516	35.542	-0.4157	1.550	N
ATOM	837	H	PHE	121	37.930	7.883	36.043	0.2719	1.300	H
ATOM	838	CA	PHE	121	38.425	9.936	35.821	-0.0024	1.700	C
ATOM	839	HA	PHE	121	38.004	10.401	34.932	0.0978	1.200	H
ATOM	840	CB	PHE	121	37.479	10.157	36.993	-0.0343	1.700	C
ATOM	841	HB2	PHE	121	36.632	9.476	36.892	0.0295	1.200	H
ATOM	842	HB3	PHE	121	37.978	9.906	37.931	0.0295	1.200	H
ATOM	843	CG	PHE	121	36.934	11.532	37.058	0.0118	1.700	C
ATOM	844	CD1	PHE	121	35.898	11.910	36.220	-0.1256	1.700	C
ATOM	845	HD1	PHE	121	35.461	11.192	35.542	0.1330	1.200	H
ATOM	846	CE1	PHE	121	35.438	13.218	36.214	-0.1704	1.700	C
ATOM	847	HE1	PHE	121	34.637	13.509	35.549	0.1430	1.200	H
ATOM	848	CZ	PHE	121	36.018	14.153	37.059	-0.1072	1.700	C
ATOM	849	HZ	PHE	121	35.672	15.176	37.056	0.1297	1.200	H
ATOM	850	CE2	PHE	121	37.051	13.777	37.908	-0.1704	1.700	C
ATOM	851	HE2	PHE	121	37.515	14.499	38.564	0.1430	1.200	H
ATOM	852	CD2	PHE	121	37.499	12.477	37.903	-0.1256	1.700	C
ATOM	853	HD2	PHE	121	38.327	12.203	38.535	0.1330	1.200	H
ATOM	854	C	PHE	121	39.817	10.461	36.156	0.5973	1.700	C
ATOM	855	O	PHE	121	40.487	9.933	37.044	-0.5679	1.500	O
ATOM	856	N	PRO	122	40.271	11.504	35.446	-0.2548	1.550	N
ATOM	857	CD	PRO	122	39.563	12.224	34.377	0.0192	1.700	C
ATOM	858	HD2	PRO	122	38.518	12.409	34.626	0.0391	1.200	H
ATOM	859	HD3	PRO	122	39.649	11.689	33.461	0.0391	1.200	H
ATOM	860	CG	PRO	122	40.301	13.525	34.339	0.0189	1.700	C
ATOM	861	HG2	PRO	122	39.976	14.172	35.156	0.0213	1.200	H
ATOM	862	HG3	PRO	122	40.161	14.026	33.381	0.0213	1.200	H
ATOM	863	CB	PRO	122	41.692	13.109	34.523	-0.0070	1.700	C
ATOM	864	HB2	PRO	122	42.358	13.949	34.726	0.0253	1.200	H
ATOM	865	HB3	PRO	122	42.030	12.602	33.618	0.0253	1.200	H
ATOM	866	CA	PRO	122	41.592	12.095	35.661	-0.0266	1.700	C
ATOM	867	HA	PRO	122	42.358	11.332	35.517	0.0641	1.200	H
ATOM	868	C	PRO	122	41.820	12.751	37.006	0.5896	1.700	C
ATOM	869	O	PRO	122	41.823	13.973	37.101	-0.5748	1.500	O
ATOM	870	N	ASP	123	41.992	11.955	38.052	-0.5163	1.550	N

ATOM	871	H	ASP	123	41.879	10.956	37.963	0.2936	1.300	H
ATOM	872	CA	ASP	123	42.255	12.509	39.381	0.0381	1.700	C
ATOM	873	HA	ASP	123	42.857	13.414	39.283	0.0880	1.200	H
ATOM	874	CB	ASP	123	40.947	12.863	40.094	-0.0303	1.700	C
ATOM	875	HB2	ASP	123	41.180	13.366	41.034	-0.0122	1.200	H
ATOM	876	HB3	ASP	123	40.379	13.563	39.479	-0.0122	1.200	H
ATOM	877	CG	ASP	123	40.086	11.663	40.379	0.7994	1.700	C
ATOM	878	OD1	ASP	123	40.296	10.606	39.757	-0.8014	1.500	O
ATOM	879	OD2	ASP	123	39.173	11.774	41.223	-0.8014	1.500	O
ATOM	880	C	ASP	123	43.060	11.514	40.204	0.5366	1.700	C
ATOM	881	O	ASP	123	43.178	11.627	41.426	-0.5819	1.500	O
ATOM	882	N	TRP	124	43.648	10.555	39.508	-0.4157	1.550	N
ATOM	883	H	TRP	124	43.546	10.521	38.504	0.2719	1.300	H
ATOM	884	CA	TRP	124	44.409	9.511	40.154	-0.0275	1.700	C
ATOM	885	HA	TRP	124	44.077	9.413	41.188	0.1123	1.200	H
ATOM	886	CB	TRP	124	44.087	8.173	39.478	-0.0050	1.700	C
ATOM	887	HB2	TRP	124	44.666	7.380	39.951	0.0339	1.200	H
ATOM	888	HB3	TRP	124	43.030	7.947	39.631	0.0339	1.200	H
ATOM	889	CG	TRP	124	44.358	8.181	38.026	-0.1415	1.700	C
ATOM	890	CD1	TRP	124	43.546	8.647	37.030	-0.1638	1.700	C
ATOM	891	HD1	TRP	124	42.567	9.050	37.188	0.2062	1.200	H
ATOM	892	NE1	TRP	124	44.196	8.571	35.811	-0.3418	1.550	N
ATOM	893	HE1	TRP	124	43.812	8.890	34.932	0.3412	1.300	H
ATOM	894	CE2	TRP	124	45.444	8.040	36.016	0.1380	1.700	C
ATOM	895	CZ2	TRP	124	46.472	7.773	35.111	-0.2601	1.700	C
ATOM	896	HZ2	TRP	124	46.370	8.035	34.075	0.1572	1.200	H
ATOM	897	CH2	TRP	124	47.629	7.240	35.614	-0.1134	1.700	C
ATOM	898	HH2	TRP	124	48.456	7.056	34.944	0.1417	1.200	H
ATOM	899	CZ3	TRP	124	47.781	6.969	36.984	-0.1972	1.700	C
ATOM	900	HZ3	TRP	124	48.700	6.597	37.364	0.1447	1.200	H
ATOM	901	CE3	TRP	124	46.777	7.228	37.875	-0.2387	1.700	C
ATOM	902	HE3	TRP	124	46.911	7.027	38.928	0.1700	1.200	H
ATOM	903	CD2	TRP	124	45.575	7.777	37.398	0.1243	1.700	C
ATOM	904	C	TRP	124	45.917	9.755	40.192	0.5973	1.700	C
ATOM	905	O	TRP	124	46.529	9.672	41.250	-0.5679	1.500	O
ATOM	906	N	GLN	125	46.496	10.130	39.057	-0.4157	1.550	N
ATOM	907	H	GLN	125	45.942	10.217	38.216	0.2719	1.300	H
ATOM	908	CA	GLN	125	47.929	10.347	38.956	-0.0031	1.700	C
ATOM	909	HA	GLN	125	48.415	9.475	39.397	0.0850	1.200	H
ATOM	910	CB	GLN	125	48.350	10.396	37.490	-0.0036	1.700	C
ATOM	911	HB2	GLN	125	47.937	9.540	36.974	0.0171	1.200	H
ATOM	912	HB3	GLN	125	47.910	11.287	37.038	0.0171	1.200	H
ATOM	913	CG	GLN	125	49.842	10.425	37.292	-0.0645	1.700	C
ATOM	914	HG2	GLN	125	50.359	11.207	37.820	0.0352	1.200	H
ATOM	915	HG3	GLN	125	50.228	9.479	37.665	0.0352	1.200	H
ATOM	916	CD	GLN	125	50.258	10.553	35.834	0.6951	1.700	C
ATOM	917	OE1	GLN	125	51.423	10.759	35.544	-0.6086	1.500	O
ATOM	918	NE2	GLN	125	49.313	10.441	34.919	-0.9407	1.550	N
ATOM	919	HE21	GLN	125	49.549	10.538	33.946	0.4251	1.300	H
ATOM	920	HE22	GLN	125	48.336	10.386	35.179	0.4251	1.300	H
ATOM	921	C	GLN	125	48.455	11.567	39.687	0.5973	1.700	C
ATOM	922	O	GLN	125	49.004	12.463	39.061	-0.5679	1.500	O
ATOM	923	N	ASN	126	48.304	11.591	41.009	-0.4157	1.550	N
ATOM	924	H	ASN	126	47.869	10.812	41.475	0.2719	1.300	H
ATOM	925	CA	ASN	126	48.790	12.685	41.850	0.0143	1.700	C
ATOM	926	HA	ASN	126	48.978	13.576	41.249	0.1048	1.200	H
ATOM	927	CB	ASN	126	47.762	13.020	42.920	-0.2041	1.700	C
ATOM	928	HB2	ASN	126	47.522	12.115	43.483	0.0797	1.200	H
ATOM	929	HB3	ASN	126	48.186	13.745	43.616	0.0797	1.200	H
ATOM	930	CG	ASN	126	46.519	13.609	42.340	0.7130	1.700	C
ATOM	931	OD1	ASN	126	46.586	14.469	41.454	-0.5931	1.500	O
ATOM	932	ND21	ASN	126	45.373	13.127	42.785	-0.9191	1.550	N
ATOM	933	HD21	ASN	126	45.364	12.372	43.452	0.4196	1.300	H
ATOM	934	HD22	ASN	126	44.509	13.467	42.386	0.4196	1.300	H
ATOM	935	C	ASN	126	50.090	12.254	42.515	0.5973	1.700	C
ATOM	936	O	ASN	126	50.201	11.119	42.987	-0.5679	1.500	O
ATOM	937	N	TYR	127	51.070	13.144	42.567	-0.4157	1.550	N
ATOM	938	H	TYR	127	50.948	14.068	42.178	0.2719	1.300	H
ATOM	939	CA	TYR	127	52.343	12.797	43.168	-0.0014	1.700	C
ATOM	940	HA	TYR	127	52.376	11.734	43.397	0.0876	1.200	H
ATOM	941	CB	TYR	127	53.456	13.054	42.165	-0.0152	1.700	C
ATOM	942	HB2	TYR	127	53.533	14.118	41.934	0.0295	1.200	H
ATOM	943	HB3	TYR	127	54.363	12.716	42.642	0.0295	1.200	H
ATOM	944	CG	TYR	127	53.332	12.235	40.903	-0.0011	1.700	C
ATOM	945	CD1	TYR	127	53.732	10.904	40.872	-0.1906	1.700	C
ATOM	946	HD1	TYR	127	54.157	10.459	41.756	0.1699	1.200	H
ATOM	947	CE1	TYR	127	53.616	10.138	39.715	-0.2341	1.700	C

ATOM	948	HE1	TYR	127	53.946	9.114	39.707	0.1656	1.200	H
ATOM	949	CZ	TYR	127	53.105	10.704	38.569	0.3226	1.700	O
ATOM	950	OH	TYR	127	53.019	9.952	37.407	-0.5579	1.500	C
ATOM	951	HH	TYR	127	52.595	10.435	36.689	0.3992	1.200	H
ATOM	952	CE2	TYR	127	52.703	12.028	38.578	-0.2341	1.700	C
ATOM	953	HE2	TYR	127	52.312	12.481	37.680	0.1656	1.200	H
ATOM	954	CD2	TYR	127	52.817	12.785	39.744	-0.1906	1.700	C
ATOM	955	HD2	TYR	127	52.502	13.819	39.730	0.1699	1.200	H
ATOM	956	C	TYR	127	52.606	13.543	44.475	0.5973	1.700	C
ATOM	957	O	TYR	127	51.977	14.556	44.753	-0.5679	1.500	O
ATOM	958	N	THR	128	53.496	13.013	45.302	-0.4157	1.550	N
ATOM	959	H	THR	128	53.979	12.162	45.054	0.2719	1.300	H
ATOM	960	CA	THR	128	53.824	13.648	46.564	-0.0389	1.700	C
ATOM	961	HA	THR	128	52.899	13.845	47.107	0.1007	1.200	H
ATOM	962	CB	THR	128	54.757	12.769	47.415	0.3654	1.700	C
ATOM	963	HB	THR	128	55.172	13.342	48.232	0.0043	1.200	H
ATOM	964	CG2	THR	128	53.999	11.584	48.010	-0.2438	1.700	C
ATOM	965	HG21	THR	128	54.687	10.966	48.585	0.0642	1.200	H
ATOM	966	HG22	THR	128	53.206	11.942	48.666	0.0642	1.200	H
ATOM	967	HG23	THR	128	53.566	10.980	47.219	0.0642	1.200	H
ATOM	968	OG1	THR	128	55.868	12.333	46.613	-0.6761	1.500	O
ATOM	969	HG1	THR	128	56.554	12.030	47.214	0.4102	1.200	H
ATOM	970	C	THR	128	54.562	14.932	46.260	0.5973	1.700	C
ATOM	971	O	THR	128	55.011	15.147	45.124	-0.5679	1.500	O
ATOM	972	N	PRO	129	54.712	15.799	47.276	-0.2548	1.550	N
ATOM	973	CD	PRO	129	54.148	15.640	48.626	0.0192	1.700	C
ATOM	974	HD2	PRO	129	54.774	15.034	49.259	0.0391	1.200	H
ATOM	975	HD3	PRO	129	53.146	15.277	48.515	0.0391	1.200	H
ATOM	976	CG	PRO	129	54.100	17.046	49.111	0.0189	1.700	C
ATOM	977	HG2	PRO	129	54.034	17.117	50.197	0.0213	1.200	H
ATOM	978	HG3	PRO	129	53.321	17.607	48.603	0.0213	1.200	H
ATOM	979	CB	PRO	129	55.316	17.615	48.594	-0.0070	1.700	C
ATOM	980	HB2	PRO	129	56.161	17.258	49.189	0.0253	1.200	H
ATOM	981	HB3	PRO	129	55.287	18.706	48.610	0.0253	1.200	H
ATOM	982	CA	PRO	129	55.397	17.085	47.170	-0.0266	1.700	C
ATOM	983	HA	PRO	129	54.875	17.744	46.474	0.0641	1.200	H
ATOM	984	C	PRO	129	56.863	16.921	46.801	0.5896	1.700	C
ATOM	985	O	PRO	129	57.395	15.806	46.763	-0.5748	1.500	O
ATOM	986	N	GLY	130	57.509	18.040	46.510	-0.4157	1.550	N
ATOM	987	H	GLY	130	57.036	18.929	46.561	0.2719	1.300	H
ATOM	988	CA	GLY	130	58.926	18.006	46.233	-0.0252	1.700	C
ATOM	989	HA2	GLY	130	59.280	17.027	45.916	0.0698	1.200	H
ATOM	990	HA3	GLY	130	59.133	18.779	45.510	0.0698	1.200	H
ATOM	991	C	GLY	130	59.606	18.419	47.536	0.5973	1.700	C
ATOM	992	O	GLY	130	58.934	18.567	48.580	-0.5679	1.500	O
ATOM	993	N	PRO	131	60.941	18.565	47.530	-0.2548	1.550	N
ATOM	994	CD	PRO	131	61.740	19.194	48.600	0.0192	1.700	C
ATOM	995	HD2	PRO	131	61.717	18.601	49.515	0.0391	1.200	H
ATOM	996	HD3	PRO	131	61.385	20.209	48.782	0.0391	1.200	H
ATOM	997	CG	PRO	131	63.136	19.220	48.005	0.0189	1.700	C
ATOM	998	HG2	PRO	131	63.663	18.297	48.255	0.0213	1.200	H
ATOM	999	HG3	PRO	131	63.703	20.077	48.369	0.0213	1.200	H
ATOM	1000	CB	PRO	131	62.908	19.307	46.529	-0.0070	1.700	C
ATOM	1001	HB2	PRO	131	63.795	18.952	46.004	0.0253	1.200	H
ATOM	1002	HB3	PRO	131	62.737	20.310	46.201	0.0253	1.200	H
ATOM	1003	CA	PRO	131	61.754	18.336	46.332	-0.0266	1.700	C
ATOM	1004	HA	PRO	131	61.245	18.568	45.400	0.0641	1.200	H
ATOM	1005	C	PRO	131	62.235	16.890	46.345	0.5896	1.700	C
ATOM	1006	O	PRO	131	62.070	16.191	47.339	-0.5748	1.500	O
ATOM	1007	N	GLY	132	62.844	16.455	45.254	-0.4157	1.550	N
ATOM	1008	H	GLY	132	63.015	17.067	44.469	0.2719	1.300	H
ATOM	1009	CA	GLY	132	63.339	15.095	45.182	-0.0252	1.700	C
ATOM	1010	HA2	GLY	132	64.346	15.113	44.768	0.0698	1.200	H
ATOM	1011	HA3	GLY	132	63.412	14.641	46.171	0.0698	1.200	H
ATOM	1012	C	GLY	132	62.462	14.237	44.296	0.5973	1.700	C
ATOM	1013	O	GLY	132	61.935	14.710	43.290	-0.5679	1.500	O
ATOM	1014	N	VAL	133	62.358	12.957	44.633	-0.4157	1.550	N
ATOM	1015	H	VAL	133	62.795	12.617	45.477	0.2719	1.300	H
ATOM	1016	CA	VAL	133	61.540	12.039	43.866	-0.0875	1.700	C
ATOM	1017	HA	VAL	133	61.668	12.253	42.813	0.0969	1.200	H
ATOM	1018	CB	VAL	133	61.904	10.582	44.156	0.2985	1.700	C
ATOM	1019	HB	VAL	133	61.746	10.367	45.214	-0.0297	1.200	H
ATOM	1020	CG1	VAL	133	61.041	9.674	43.337	-0.3192	1.700	C
ATOM	1021	HG11	VAL	133	61.351	8.670	43.600	0.0791	1.200	H
ATOM	1022	HG12	VAL	133	59.992	9.765	43.612	0.0791	1.200	H
ATOM	1023	HG13	VAL	133	61.168	9.852	42.271	0.0791	1.200	H
ATOM	1024	CG2	VAL	133	63.354	10.331	43.827	-0.3192	1.700	C

ATOM	1025	HG21	VAL	133	63.599	9.284	44.005	0.0791	1.200	H
ATOM	1026	HG22	VAL	133	63.552	10.573	42.783	0.0791	1.200	H
ATOM	1027	HG23	VAL	133	64.003	10.936	44.460	0.0791	1.200	H
ATOM	1028	C	VAL	133	60.129	12.273	44.347	0.5973	1.700	C
ATOM	1029	O	VAL	133	59.918	12.461	45.552	-0.5679	1.500	O
ATOM	1030	N	ARG	134	59.178	12.320	43.414	-0.3479	1.550	N
ATOM	1031	H	ARG	134	59.418	12.183	42.445	0.2747	1.300	H
ATOM	1032	CA	ARG	134	57.769	12.513	43.755	-0.2637	1.700	C
ATOM	1033	HA	ARG	134	57.661	12.812	44.798	0.1560	1.200	H
ATOM	1034	CB	ARG	134	57.144	13.609	42.885	-0.0007	1.700	C
ATOM	1035	HB2	ARG	134	57.261	13.422	41.848	0.0327	1.200	H
ATOM	1036	HB3	ARG	134	56.088	13.582	43.089	0.0327	1.200	H
ATOM	1037	CG	ARG	134	57.536	15.017	43.310	0.0390	1.700	C
ATOM	1038	HG2	ARG	134	56.922	15.697	42.729	0.0285	1.200	H
ATOM	1039	HG3	ARG	134	57.316	15.152	44.362	0.0285	1.200	H
ATOM	1040	CD	ARG	134	59.013	15.229	43.126	0.0486	1.700	C
ATOM	1041	HD2	ARG	134	59.532	14.615	43.845	0.0687	1.200	H
ATOM	1042	HD3	ARG	134	59.321	14.964	42.114	0.0687	1.200	H
ATOM	1043	NE	ARG	134	59.480	16.568	43.462	-0.5295	1.550	N
ATOM	1044	HE	ARG	134	60.273	16.625	44.083	0.3456	1.300	H
ATOM	1045	CZ	ARG	134	59.027	17.693	42.912	0.8076	1.700	C
ATOM	1046	NH1	ARG	134	58.066	17.669	42.001	-0.8627	1.550	N
ATOM	1047	HH11	ARG	134	57.726	18.520	41.585	0.4478	1.300	H
ATOM	1048	HH12	ARG	134	57.713	16.781	41.679	0.4478	1.300	H
ATOM	1049	NH2	ARG	134	59.594	18.850	43.218	-0.8627	1.550	N
ATOM	1050	HH21	ARG	134	60.425	18.846	43.791	0.4478	1.300	H
ATOM	1051	HH22	ARG	134	59.312	19.686	42.735	0.4478	1.300	H
ATOM	1052	C	ARG	134	57.080	11.179	43.550	0.7341	1.700	C
ATOM	1053	O	ARG	134	57.033	10.663	42.437	-0.5894	1.500	O
ATOM	1054	N	TYR	135	56.585	10.603	44.632	-0.4157	1.550	N
ATOM	1055	H	TYR	135	56.678	11.049	45.530	0.2719	1.300	H
ATOM	1056	CA	TYR	135	55.959	9.293	44.567	-0.0014	1.700	C
ATOM	1057	HA	TYR	135	56.464	8.741	43.777	0.0876	1.200	H
ATOM	1058	CB	TYR	135	56.216	8.518	45.870	-0.0152	1.700	C
ATOM	1059	HB2	TYR	135	55.801	9.078	46.710	0.0295	1.200	H
ATOM	1060	HB3	TYR	135	55.699	7.558	45.827	0.0295	1.200	H
ATOM	1061	CG	TYR	135	57.692	8.256	46.111	-0.0011	1.700	C
ATOM	1062	CD1	TYR	135	58.375	7.295	45.379	-0.1906	1.700	C
ATOM	1063	HD1	TYR	135	57.838	6.698	44.657	0.1699	1.200	H
ATOM	1064	CE1	TYR	135	59.721	7.123	45.524	-0.2341	1.700	C
ATOM	1065	HE1	TYR	135	60.242	6.379	44.939	0.1656	1.200	H
ATOM	1066	CZ	TYR	135	60.411	7.913	46.410	0.3226	1.700	C
ATOM	1067	OH	TYR	135	61.774	7.771	46.537	-0.5579	1.500	O
ATOM	1068	HH	TYR	135	62.148	8.374	47.186	0.3992	1.200	H
ATOM	1069	CE2	TYR	135	59.764	8.860	47.153	-0.2341	1.700	C
ATOM	1070	HE2	TYR	135	60.312	9.482	47.846	0.1656	1.200	H
ATOM	1071	CD2	TYR	135	58.417	9.027	47.006	-0.1906	1.700	C
ATOM	1072	HD2	TYR	135	57.916	9.793	47.580	0.1699	1.200	H
ATOM	1073	C	TYR	135	54.484	9.363	44.279	0.5973	1.700	C
ATOM	1074	O	TYR	135	53.797	10.266	44.766	-0.5679	1.500	O
ATOM	1075	N	PRO	136	53.967	8.396	43.495	-0.2548	1.550	N
ATOM	1076	CD	PRO	136	54.722	7.288	42.890	0.0192	1.700	C
ATOM	1077	HD2	PRO	136	55.414	6.833	43.598	0.0391	1.200	H
ATOM	1078	HD3	PRO	136	55.259	7.667	42.033	0.0391	1.200	H
ATOM	1079	CG	PRO	136	53.631	6.311	42.576	0.0189	1.700	C
ATOM	1080	HG2	PRO	136	53.334	5.754	43.465	0.0213	1.200	H
ATOM	1081	HG3	PRO	136	53.949	5.618	41.806	0.0213	1.200	H
ATOM	1082	CB	PRO	136	52.549	7.179	42.097	-0.0070	1.700	C
ATOM	1083	HB2	PRO	136	51.588	6.672	42.023	0.0253	1.200	H
ATOM	1084	HB3	PRO	136	52.917	7.625	41.182	0.0253	1.200	H
ATOM	1085	CA	PRO	136	52.554	8.311	43.115	-0.0266	1.700	C
ATOM	1086	HA	PRO	136	52.228	9.237	42.640	0.0641	1.200	H
ATOM	1087	C	PRO	136	51.679	8.005	44.311	0.5896	1.700	C
ATOM	1088	O	PRO	136	52.010	7.140	45.110	-0.5748	1.500	O
ATOM	1089	N	LEU	137	50.584	8.745	44.451	-0.4157	1.550	N
ATOM	1090	H	LEU	137	50.369	9.458	43.770	0.2719	1.300	H
ATOM	1091	CA	LEU	137	49.678	8.560	45.570	-0.0518	1.700	C
ATOM	1092	HA	LEU	137	50.266	8.396	46.472	0.0922	1.200	H
ATOM	1093	CB	LEU	137	48.820	9.813	45.800	-0.1102	1.700	C
ATOM	1094	HB2	LEU	137	48.190	9.938	44.917	0.0457	1.200	H
ATOM	1095	HB3	LEU	137	48.142	9.515	46.603	0.0457	1.200	H
ATOM	1096	CG	LEU	137	49.347	11.207	46.156	0.3531	1.700	C
ATOM	1097	HG	LEU	137	49.641	11.763	45.272	-0.0361	1.200	H
ATOM	1098	CD1	LEU	137	48.207	11.908	46.842	-0.4121	1.700	C
ATOM	1099	HD11	LEU	137	48.505	12.923	47.106	0.1000	1.200	H
ATOM	1100	HD12	LEU	137	47.351	11.972	46.169	0.1000	1.200	H
ATOM	1101	HD13	LEU	137	47.910	11.386	47.753	0.1000	1.200	H

ATOM	1102	CD2	LEU	137	50.487	11.173	47.124	-0.4121	1.700	C
ATOM	1103	HD21	LEU	137	50.795	12.189	47.376	0.1000	1.200	H
ATOM	1104	HD22	LEU	137	50.207	10.645	48.036	0.1000	1.200	H
ATOM	1105	HD23	LEU	137	51.331	10.670	46.655	0.1000	1.200	H
ATOM	1106	C	LEU	137	48.764	7.356	45.392	0.5973	1.700	C
ATOM	1107	O	LEU	137	48.311	6.784	46.376	-0.5679	1.500	O
ATOM	1108	N	THR	138	48.437	7.014	44.148	-0.4157	1.550	N
ATOM	1109	H	THR	138	48.829	7.527	43.372	0.2719	1.300	H
ATOM	1110	CA	THR	138	47.568	5.862	43.859	-0.0389	1.700	C
ATOM	1111	HA	THR	138	46.773	5.798	44.604	0.1007	1.200	H
ATOM	1112	CB	THR	138	46.914	5.979	42.442	0.3654	1.700	C
ATOM	1113	HB	THR	138	47.691	6.122	41.689	0.0043	1.200	H
ATOM	1114	CG2	THR	138	46.113	4.746	42.087	-0.2438	1.700	C
ATOM	1115	HG21	THR	138	45.601	4.911	41.139	0.0642	1.200	H
ATOM	1116	HG22	THR	138	46.769	3.884	41.967	0.0642	1.200	H
ATOM	1117	HG23	THR	138	45.374	4.539	42.862	0.0642	1.200	H
ATOM	1118	OG1	THR	138	46.036	7.102	42.416	-0.6761	1.500	O
ATOM	1119	HG1	THR	138	46.555	7.910	42.376	0.4102	1.200	H
ATOM	1120	C	THR	138	48.426	4.604	43.907	0.5973	1.700	C
ATOM	1121	O	THR	138	49.355	4.462	43.127	-0.5679	1.500	O
ATOM	1122	N	PHE	139	48.137	3.709	44.838	-0.4157	1.550	N
ATOM	1123	H	PHE	139	47.360	3.854	45.465	0.2719	1.300	H
ATOM	1124	CA	PHE	139	48.914	2.479	44.962	-0.0024	1.700	C
ATOM	1125	HA	PHE	139	49.965	2.758	44.994	0.0978	1.200	H
ATOM	1126	CB	PHE	139	48.512	1.711	46.227	-0.0343	1.700	C
ATOM	1127	HB2	PHE	139	48.550	2.389	47.078	0.0295	1.200	H
ATOM	1128	HB3	PHE	139	47.480	1.370	46.125	0.0295	1.200	H
ATOM	1129	CG	PHE	139	49.402	0.535	46.541	0.0118	1.700	C
ATOM	1130	CD1	PHE	139	50.771	0.588	46.292	-0.1256	1.700	C
ATOM	1131	HD1	PHE	139	51.233	1.465	45.871	0.1330	1.200	H
ATOM	1132	CE1	PHE	139	51.602	-0.467	46.646	-0.1704	1.700	C
ATOM	1133	HE1	PHE	139	52.664	-0.404	46.499	0.1430	1.200	H
ATOM	1134	CZ	PHE	139	51.071	-1.582	47.247	-0.1072	1.700	C
ATOM	1135	HZ	PHE	139	51.716	-2.399	47.537	0.1297	1.200	H
ATOM	1136	CE2	PHE	139	49.709	-1.658	47.496	-0.1704	1.700	C
ATOM	1137	HE2	PHE	139	49.296	-2.539	47.966	0.1430	1.200	H
ATOM	1138	CD2	PHE	139	48.880	-0.607	47.145	-0.1256	1.700	C
ATOM	1139	HD2	PHE	139	47.823	-0.672	47.359	0.1330	1.200	H
ATOM	1140	C	PHE	139	48.614	1.666	43.725	0.5973	1.700	C
ATOM	1141	O	PHE	139	47.454	1.528	43.349	-0.5679	1.500	O
ATOM	1142	N	GLY	140	49.666	1.223	43.050	-0.4157	1.550	N
ATOM	1143	H	GLY	140	50.600	1.389	43.398	0.2719	1.300	H
ATOM	1144	CA	GLY	140	49.511	0.446	41.843	-0.0252	1.700	C
ATOM	1145	HA2	GLY	140	50.004	-0.515	41.989	0.0698	1.200	H
ATOM	1146	HA3	GLY	140	48.468	0.258	41.607	0.0698	1.200	H
ATOM	1147	C	GLY	140	50.185	1.168	40.703	0.5973	1.700	C
ATOM	1148	O	GLY	140	50.745	0.547	39.814	-0.5679	1.500	O
ATOM	1149	N	TRP	141	50.145	2.493	40.725	-0.4157	1.550	N
ATOM	1150	H	TRP	141	49.690	2.976	41.487	0.2719	1.300	H
ATOM	1151	CA	TRP	141	50.765	3.296	39.669	-0.0275	1.700	C
ATOM	1152	HA	TRP	141	50.481	2.891	38.697	0.1123	1.200	H
ATOM	1153	CB	TRP	141	50.284	4.749	39.766	-0.0050	1.700	C
ATOM	1154	HB2	TRP	141	49.202	4.767	39.629	0.0339	1.200	H
ATOM	1155	HB3	TRP	141	50.492	5.126	40.767	0.0339	1.200	H
ATOM	1156	CG	TRP	141	50.888	5.675	38.770	-0.1415	1.700	C
ATOM	1157	CD1	TRP	141	51.576	6.819	39.044	-0.1638	1.700	C
ATOM	1158	HD1	TRP	141	51.527	7.305	39.976	0.2062	1.200	H
ATOM	1159	NE1	TRP	141	51.953	7.428	37.864	-0.3418	1.550	N
ATOM	1160	HE1	TRP	141	52.448	8.303	37.822	0.3412	1.300	H
ATOM	1161	CE2	TRP	141	51.504	6.683	36.802	0.1380	1.700	C
ATOM	1162	CZ2	TRP	141	51.630	6.901	35.422	-0.2601	1.700	C
ATOM	1163	HZ2	TRP	141	52.158	7.763	35.040	0.1572	1.200	H
ATOM	1164	CH2	TRP	141	51.066	5.982	34.571	-0.1134	1.700	C
ATOM	1165	HH2	TRP	141	51.170	6.156	33.517	0.1417	1.200	H
ATOM	1166	CZ3	TRP	141	50.391	4.867	35.063	-0.1972	1.700	C
ATOM	1167	HZ3	TRP	141	49.954	4.160	34.374	0.1447	1.200	H
ATOM	1168	CE3	TRP	141	50.263	4.645	36.444	-0.2387	1.700	C
ATOM	1169	HE3	TRP	141	49.731	3.779	36.808	0.1700	1.200	H
ATOM	1170	CD2	TRP	141	50.829	5.568	37.330	0.1243	1.700	C
ATOM	1171	C	TRP	141	52.276	3.192	39.851	0.5973	1.700	C
ATOM	1172	O	TRP	141	52.837	3.669	40.846	-0.5679	1.500	O
ATOM	1173	N	CYS	142	52.922	2.539	38.894	-0.4157	1.550	N
ATOM	1174	H	CYS	142	52.419	2.161	38.106	0.2719	1.300	H
ATOM	1175	CA	CYS	142	54.350	2.313	38.959	0.0213	1.700	C
ATOM	1176	HA	CYS	142	54.637	2.273	40.006	0.1124	1.200	H
ATOM	1177	CB	CYS	142	54.683	0.947	38.369	-0.1231	1.700	C
ATOM	1178	HB2	CYS	142	54.470	0.957	37.302	0.1112	1.200	H

ATOM	1179	HB3	CYS	142	55.747	0.743	38.505	0.1112	1.200	H
ATOM	1180	SG	CYS	142	53.777	-0.384	39.120	-0.3119	1.800	S
ATOM	1181	HG	CYS	142	52.560	0.073	38.821	0.1933	1.200	H
ATOM	1182	C	CYS	142	55.222	3.367	38.313	0.5973	1.700	C
ATOM	1183	O	CYS	142	56.186	3.032	37.623	-0.5679	1.500	O
ATOM	1184	N	TYR	143	54.887	4.635	38.504	-0.4157	1.550	N
ATOM	1185	H	TYR	143	54.082	4.875	39.066	0.2719	1.300	H
ATOM	1186	CA	TYR	143	55.709	5.715	37.981	-0.0014	1.700	C
ATOM	1187	HA	TYR	143	56.692	5.340	37.706	0.0876	1.200	H
ATOM	1188	CB	TYR	143	55.099	6.376	36.754	-0.0152	1.700	C
ATOM	1189	HB2	TYR	143	54.037	6.470	36.895	0.0295	1.200	H
ATOM	1190	HB3	TYR	143	55.508	7.381	36.654	0.0295	1.200	H
ATOM	1191	CG	TYR	143	55.362	5.643	35.469	-0.0011	1.700	C
ATOM	1192	CD1	TYR	143	56.516	5.872	34.741	-0.1906	1.700	C
ATOM	1193	HD1	TYR	143	57.245	6.582	35.101	0.1699	1.200	H
ATOM	1194	CE1	TYR	143	56.751	5.205	33.538	-0.2341	1.700	C
ATOM	1195	HE1	TYR	143	57.662	5.388	32.985	0.1656	1.200	H
ATOM	1196	CZ	TYR	143	55.811	4.310	33.065	0.3226	1.700	C
ATOM	1197	OH	TYR	143	56.015	3.647	31.871	-0.5579	1.500	O
ATOM	1198	HH	TYR	143	56.837	3.901	31.445	0.3992	1.200	H
ATOM	1199	CE2	TYR	143	54.661	4.074	33.774	-0.2341	1.700	C
ATOM	1200	HE2	TYR	143	53.932	3.366	33.406	0.1656	1.200	H
ATOM	1201	CD2	TYR	143	54.446	4.736	34.968	-0.1906	1.700	C
ATOM	1202	HD2	TYR	143	53.533	4.543	35.514	0.1699	1.200	H
ATOM	1203	C	TYR	143	55.900	6.742	39.068	0.5973	1.700	C
ATOM	1204	O	TYR	143	55.055	6.918	39.953	-0.5679	1.500	O
ATOM	1205	N	LYS	144	57.076	7.342	39.060	-0.3479	1.550	N
ATOM	1206	H	LYS	144	57.745	7.117	38.335	0.2747	1.300	H
ATOM	1207	CA	LYS	144	57.418	8.379	40.008	-0.2400	1.700	C
ATOM	1208	HA	LYS	144	56.529	8.820	40.462	0.1426	1.200	H
ATOM	1209	CB	LYS	144	58.337	7.825	41.081	-0.0094	1.700	C
ATOM	1210	HB2	LYS	144	58.656	8.636	41.736	0.0362	1.200	H
ATOM	1211	HB3	LYS	144	57.769	7.115	41.683	0.0362	1.200	H
ATOM	1212	CG	LYS	144	59.558	7.136	40.514	0.0187	1.700	C
ATOM	1213	HG2	LYS	144	59.248	6.313	39.876	0.0103	1.200	H
ATOM	1214	HG3	LYS	144	60.156	7.837	39.940	0.0103	1.200	H
ATOM	1215	CD	LYS	144	60.395	6.540	41.610	-0.0479	1.700	C
ATOM	1216	HD2	LYS	144	60.797	7.325	42.220	0.0621	1.200	H
ATOM	1217	HD3	LYS	144	59.792	5.873	42.227	0.0621	1.200	H
ATOM	1218	CE	LYS	144	61.538	5.764	41.005	-0.0143	1.700	C
ATOM	1219	HE2	LYS	144	61.163	5.030	40.315	0.1135	1.200	H
ATOM	1220	HE3	LYS	144	62.131	6.462	40.412	0.1135	1.200	H
ATOM	1221	NZ	LYS	144	62.410	5.210	42.059	-0.3854	1.550	N
ATOM	1222	HZ1	LYS	144	62.735	5.951	42.663	0.3400	1.300	H
ATOM	1223	HZ2	LYS	144	61.886	4.535	42.604	0.3400	1.300	H
ATOM	1224	HZ3	LYS	144	63.202	4.745	41.640	0.3400	1.300	H
ATOM	1225	C	LYS	144	58.140	9.433	39.192	0.7341	1.700	C
ATOM	1226	O	LYS	144	58.546	9.195	38.033	-0.5894	1.500	O
ATOM	1227	N	LEU	145	58.240	10.622	39.762	-0.4157	1.550	N
ATOM	1228	H	LEU	145	57.862	10.777	40.685	0.2719	1.300	H
ATOM	1229	CA	LEU	145	58.920	11.712	39.088	-0.0518	1.700	C
ATOM	1230	HA	LEU	145	59.027	11.457	38.071	0.0922	1.200	H
ATOM	1231	CB	LEU	145	58.071	12.980	39.157	-0.1102	1.700	C
ATOM	1232	HB2	LEU	145	58.056	13.393	40.137	0.0457	1.200	H
ATOM	1233	HB3	LEU	145	58.565	13.725	38.549	0.0457	1.200	H
ATOM	1234	CG	LEU	145	56.685	12.761	38.535	0.3531	1.700	C
ATOM	1235	HG	LEU	145	56.121	12.044	39.134	-0.0361	1.200	H
ATOM	1236	CD1	LEU	145	55.902	14.057	38.541	-0.4121	1.700	C
ATOM	1237	HD11	LEU	145	54.944	13.920	38.041	0.1000	1.200	H
ATOM	1238	HD12	LEU	145	55.717	14.370	39.569	0.1000	1.200	H
ATOM	1239	HD13	LEU	145	56.476	14.831	38.036	0.1000	1.200	H
ATOM	1240	CD2	LEU	145	56.825	12.207	37.136	-0.4121	1.700	C
ATOM	1241	HD21	LEU	145	55.870	12.287	36.615	0.1000	1.200	H
ATOM	1242	HD22	LEU	145	57.573	12.763	36.571	0.1000	1.200	H
ATOM	1243	HD23	LEU	145	57.076	11.150	37.156	0.1000	1.200	H
ATOM	1244	C	LEU	145	60.283	11.869	39.747	0.5973	1.700	C
ATOM	1245	O	LEU	145	60.398	12.056	40.962	-0.5679	1.500	O
ATOM	1246	N	VAL	146	61.313	11.710	38.929	-0.4157	1.550	N
ATOM	1247	H	VAL	146	61.144	11.545	37.946	0.2719	1.300	H
ATOM	1248	CA	VAL	146	62.704	11.768	39.369	-0.0875	1.700	C
ATOM	1249	HA	VAL	146	62.725	11.769	40.453	0.0969	1.200	H
ATOM	1250	CB	VAL	146	63.424	10.462	38.955	0.2985	1.700	C
ATOM	1251	HB	VAL	146	63.330	10.350	37.875	-0.0297	1.200	H
ATOM	1252	CG1	VAL	146	64.882	10.530	39.287	-0.3192	1.700	C
ATOM	1253	HG11	VAL	146	65.352	9.573	39.061	0.0791	1.200	H
ATOM	1254	HG12	VAL	146	65.391	11.284	38.687	0.0791	1.200	H
ATOM	1255	HG13	VAL	146	65.022	10.751	40.346	0.0791	1.200	H

ATOM	1256	CG2	VAL	146	62.773	9.272	39.631	-0.3192	1.700	C
ATOM	1257	HG21	VAL	146	63.304	8.354	39.385	0.0791	1.200	H
ATOM	1258	HG22	VAL	146	62.806	9.399	40.712	0.0791	1.200	H
ATOM	1259	HG23	VAL	146	61.739	9.184	39.312	0.0791	1.200	H
ATOM	1260	C	VAL	146	63.459	12.955	38.764	0.5973	1.700	C
ATOM	1261	O	VAL	146	63.488	13.123	37.529	-0.5679	1.500	O
ATOM	1262	N	PRO	147	64.040	13.811	39.629	-0.2548	1.550	N
ATOM	1263	CD	PRO	147	63.744	13.786	41.070	0.0192	1.700	C
ATOM	1264	HD2	PRO	147	64.279	12.967	41.552	0.0391	1.200	H
ATOM	1265	HD3	PRO	147	62.673	13.727	41.247	0.0391	1.200	H
ATOM	1266	CG	PRO	147	64.298	15.126	41.539	0.0189	1.700	C
ATOM	1267	HG2	PRO	147	64.645	15.067	42.568	0.0213	1.200	H
ATOM	1268	HG3	PRO	147	63.553	15.912	41.440	0.0213	1.200	H
ATOM	1269	CB	PRO	147	65.429	15.379	40.633	-0.0070	1.700	C
ATOM	1270	HB2	PRO	147	66.263	14.718	40.876	0.0253	1.200	H
ATOM	1271	HB3	PRO	147	65.743	16.423	40.658	0.0253	1.200	H
ATOM	1272	CA	PRO	147	64.817	15.010	39.302	-0.0266	1.700	C
ATOM	1273	HA	PRO	147	64.174	15.814	39.004	0.0641	1.200	H
ATOM	1274	C	PRO	147	65.879	14.837	38.224	0.5896	1.700	C
ATOM	1275	O	PRO	147	66.702	13.913	38.271	-0.5748	1.500	O
ATOM	1276	N	VAL	148	65.880	15.806	37.312	-0.3821	1.550	N
ATOM	1277	H	VAL	148	65.313	16.602	37.475	0.2681	1.300	H
ATOM	1278	CA	VAL	148	66.768	15.879	36.170	-0.3438	1.700	C
ATOM	1279	HA	VAL	148	66.607	16.838	35.679	0.1438	1.200	H
ATOM	1280	CB	VAL	148	68.246	15.797	36.596	0.1940	1.700	C
ATOM	1281	HB	VAL	148	68.461	14.966	37.258	0.0308	1.200	H
ATOM	1282	CG1	VAL	148	69.148	15.603	35.391	-0.3064	1.700	C
ATOM	1283	HG11	VAL	148	70.155	15.947	35.626	0.0836	1.200	H
ATOM	1284	HG12	VAL	148	69.247	14.553	35.123	0.0836	1.200	H
ATOM	1285	HG13	VAL	148	68.784	16.177	34.538	0.0836	1.200	H
ATOM	1286	CG2	VAL	148	68.631	17.082	37.320	-0.3064	1.700	C
ATOM	1287	HG21	VAL	148	69.678	17.039	37.622	0.0836	1.200	H
ATOM	1288	HG22	VAL	148	68.481	17.942	36.666	0.0836	1.200	H
ATOM	1289	HG23	VAL	148	68.023	17.203	38.217	0.0836	1.200	H
ATOM	1290	C	VAL	148	66.405	14.819	35.155	0.8350	1.700	C
ATOM	1291	O	VAL	148	65.508	15.040	34.342	-0.8173	1.500	O
ATOM	1292	OXT	VAL	148	67.036	13.766	35.100	-0.8173	1.500	O
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ATOM	1293	N	ARG	178	62.227	25.520	38.714	0.1305	1.550	N
ATOM	1294	H1	ARG	178	61.474	25.050	38.231	0.2083	1.300	H
ATOM	1295	H2	ARG	178	63.004	25.627	38.076	0.2083	1.300	H
ATOM	1296	H3	ARG	178	61.918	26.431	39.023	0.2083	1.300	H
ATOM	1297	CA	ARG	178	62.650	24.722	39.862	-0.0223	1.700	C
ATOM	1298	HA	ARG	178	63.447	25.251	40.384	0.1242	1.200	H
ATOM	1299	CB	ARG	178	61.471	24.520	40.826	0.0118	1.700	C
ATOM	1300	HB2	ARG	178	61.126	25.494	41.176	0.0226	1.200	H
ATOM	1301	HB3	ARG	178	60.651	24.014	40.312	0.0226	1.200	H
ATOM	1302	CG	ARG	178	61.927	23.685	42.018	0.0236	1.700	C
ATOM	1303	HG2	ARG	178	62.121	22.643	42.100	0.0309	1.200	H
ATOM	1304	HG3	ARG	178	62.724	24.221	42.537	0.0309	1.200	H
ATOM	1305	CD	ARG	178	60.756	23.485	42.975	0.0935	1.700	C
ATOM	1306	HD2	ARG	178	60.399	24.459	43.314	0.0527	1.200	H
ATOM	1307	HD3	ARG	178	59.946	22.973	42.451	0.0527	1.200	H
ATOM	1308	NE	ARG	178	61.162	22.677	44.147	-0.5650	1.550	N
ATOM	1309	HE	ARG	178	62.117	22.351	44.191	0.3592	1.300	H
ATOM	1310	CZ	ARG	178	60.326	22.359	45.132	0.8281	1.700	C
ATOM	1311	NH1	ARG	178	59.054	22.748	45.130	-0.8693	1.550	N
ATOM	1312	HH11	ARG	178	58.698	23.314	44.376	0.4494	1.300	H
ATOM	1313	HH12	ARG	178	58.449	22.492	45.896	0.4494	1.300	H
ATOM	1314	NH2	ARG	178	60.797	21.628	46.138	-0.8693	1.550	N
ATOM	1315	HH21	ARG	178	60.194	21.376	46.909	0.4494	1.300	H
ATOM	1316	HH22	ARG	178	61.785	21.463	46.201	0.4494	1.300	H
ATOM	1317	C	ARG	178	63.203	23.374	39.389	0.7214	1.700	C
ATOM	1318	O	ARG	178	63.796	23.280	38.305	-0.6013	1.500	O
ATOM	1319	N	GLU	179	62.984	22.340	40.198	-0.5163	1.550	N
ATOM	1320	H	GLU	179	62.132	22.359	40.714	0.2936	1.300	H
ATOM	1321	CA	GLU	179	63.443	20.982	39.921	0.0397	1.700	C
ATOM	1322	HA	GLU	179	64.526	21.001	39.782	0.1105	1.200	H
ATOM	1323	CB	GLU	179	63.105	20.099	41.125	0.0560	1.700	C
ATOM	1324	HB2	GLU	179	63.008	20.729	42.007	-0.0173	1.200	H
ATOM	1325	HB3	GLU	179	62.138	19.617	40.971	-0.0173	1.200	H
ATOM	1326	CG	GLU	179	64.141	19.054	41.518	0.0136	1.700	C
ATOM	1327	HG2	GLU	179	64.216	18.316	40.718	-0.0425	1.200	H
ATOM	1328	HG3	GLU	179	65.110	19.542	41.634	-0.0425	1.200	H
ATOM	1329	CD	GLU	179	63.775	18.350	42.827	0.8054	1.700	C
ATOM	1330	OE1	GLU	179	62.570	18.290	43.159	-0.8188	1.500	O
ATOM	1331	OE2	GLU	179	64.686	17.864	43.533	-0.8188	1.500	O

ATOM	1332	C	GLU	179	62.765	20.427	38.670	0.5366	1.700	C
ATOM	1333	O	GLU	179	61.534	20.448	38.569	-0.5819	1.500	O
ATOM	1334	N	VAL	180	63.582	19.990	37.709	-0.4157	1.550	N
ATOM	1335	H	VAL	180	64.580	20.014	37.861	0.2719	1.300	H
ATOM	1336	CA	VAL	180	63.117	19.395	36.451	-0.0875	1.700	C
ATOM	1337	HA	VAL	180	62.178	19.852	36.134	0.0969	1.200	H
ATOM	1338	CB	VAL	180	64.171	19.543	35.341	0.2985	1.700	C
ATOM	1339	HB	VAL	180	65.095	19.051	35.650	-0.0297	1.200	H
ATOM	1340	CG1	VAL	180	63.689	18.884	34.061	-0.3192	1.700	C
ATOM	1341	HG11	VAL	180	64.438	19.016	33.280	0.0791	1.200	H
ATOM	1342	HG12	VAL	180	63.552	17.811	34.200	0.0791	1.200	H
ATOM	1343	HG13	VAL	180	62.751	19.332	33.734	0.0791	1.200	H
ATOM	1344	CG2	VAL	180	64.482	21.016	35.108	-0.3192	1.700	C
ATOM	1345	HG21	VAL	180	64.978	21.444	35.979	0.0791	1.200	H
ATOM	1346	HG22	VAL	180	65.151	21.119	34.253	0.0791	1.200	H
ATOM	1347	HG23	VAL	180	63.563	21.567	34.907	0.0791	1.200	H
ATOM	1348	C	VAL	180	62.919	17.911	36.733	0.5973	1.700	C
ATOM	1349	O	VAL	180	63.813	17.264	37.256	-0.5679	1.500	O
ATOM	1350	N	LEU	181	61.768	17.360	36.366	-0.4157	1.550	N
ATOM	1351	H	LEU	181	61.072	17.907	35.883	0.2719	1.300	H
ATOM	1352	CA	LEU	181	61.482	15.959	36.652	-0.0518	1.700	C
ATOM	1353	HA	LEU	181	62.327	15.488	37.154	0.0922	1.200	H
ATOM	1354	CB	LEU	181	60.290	15.883	37.592	-0.1102	1.700	C
ATOM	1355	HB2	LEU	181	59.425	16.245	37.039	0.0457	1.200	H
ATOM	1356	HB3	LEU	181	60.131	14.838	37.836	0.0457	1.200	H
ATOM	1357	CG	LEU	181	60.461	16.680	38.870	0.3531	1.700	C
ATOM	1358	HG	LEU	181	60.877	17.665	38.667	-0.0361	1.200	H
ATOM	1359	CD1	LEU	181	59.126	16.894	39.465	-0.4121	1.700	C
ATOM	1360	HD11	LEU	181	59.219	17.836	39.988	0.1000	1.200	H
ATOM	1361	HD12	LEU	181	58.357	17.046	38.706	0.1000	1.200	H
ATOM	1362	HD13	LEU	181	58.838	16.059	40.103	0.1000	1.200	H
ATOM	1363	CD2	LEU	181	61.355	15.959	39.833	-0.4121	1.700	C
ATOM	1364	HD21	LEU	181	62.341	15.994	39.429	0.1000	1.200	H
ATOM	1365	HD22	LEU	181	61.351	16.468	40.797	0.1000	1.200	H
ATOM	1366	HD23	LEU	181	61.039	14.925	39.969	0.1000	1.200	H
ATOM	1367	C	LEU	181	61.183	15.122	35.427	0.5973	1.700	C
ATOM	1368	O	LEU	181	60.878	15.653	34.358	-0.5679	1.500	O
ATOM	1369	N	GLU	182	61.267	13.804	35.601	-0.5163	1.550	N
ATOM	1370	H	GLU	182	61.586	13.440	36.488	0.2936	1.300	H
ATOM	1371	CA	GLU	182	60.967	12.840	34.540	0.0397	1.700	C
ATOM	1372	HA	GLU	182	60.422	13.332	33.744	0.1105	1.200	H
ATOM	1373	CB	GLU	182	62.222	12.169	34.004	0.0560	1.700	C
ATOM	1374	HB2	GLU	182	62.685	11.678	34.862	-0.0173	1.200	H
ATOM	1375	HB3	GLU	182	61.924	11.381	33.316	-0.0173	1.200	H
ATOM	1376	CG	GLU	182	63.217	13.008	33.312	0.0136	1.700	C
ATOM	1377	HG2	GLU	182	62.821	13.396	32.387	-0.0425	1.200	H
ATOM	1378	HG3	GLU	182	63.416	13.870	33.942	-0.0425	1.200	H
ATOM	1379	CD	GLU	182	64.481	12.227	33.149	0.8054	1.700	C
ATOM	1380	OE1	GLU	182	64.990	11.763	34.190	-0.8188	1.500	O
ATOM	1381	OE2	GLU	182	64.942	12.030	32.005	-0.8188	1.500	O
ATOM	1382	C	GLU	182	60.139	11.709	35.114	0.5366	1.700	C
ATOM	1383	O	GLU	182	60.171	11.441	36.321	-0.5819	1.500	O
ATOM	1384	N	TRP	183	59.459	11.014	34.216	-0.4157	1.550	N
ATOM	1385	H	TRP	183	59.526	11.270	33.240	0.2719	1.300	H
ATOM	1386	CA	TRP	183	58.654	9.856	34.561	-0.0275	1.700	C
ATOM	1387	HA	TRP	183	58.176	9.988	35.531	0.1123	1.200	H
ATOM	1388	CB	TRP	183	57.590	9.621	33.491	-0.0050	1.700	C
ATOM	1389	HB2	TRP	183	57.966	10.051	32.579	0.0339	1.200	H
ATOM	1390	HB3	TRP	183	57.405	8.554	33.368	0.0339	1.200	H
ATOM	1391	CG	TRP	183	56.298	10.308	33.722	-0.1415	1.700	C
ATOM	1392	CD1	TRP	183	55.358	9.988	34.660	-0.1638	1.700	C
ATOM	1393	HD1	TRP	183	55.466	9.213	35.403	0.2062	1.200	H
ATOM	1394	NE1	TRP	183	54.227	10.733	34.464	-0.3418	1.550	N
ATOM	1395	HE1	TRP	183	53.380	10.641	35.009	0.3412	1.300	H
ATOM	1396	CE2	TRP	183	54.422	11.572	33.397	0.1380	1.700	C
ATOM	1397	CZ2	TRP	183	53.567	12.512	32.821	-0.2601	1.700	C
ATOM	1398	HZ2	TRP	183	52.572	12.655	33.206	0.1572	1.200	H
ATOM	1399	CH2	TRP	183	54.030	13.218	31.742	-0.1134	1.700	C
ATOM	1400	HH2	TRP	183	53.385	13.940	31.268	0.1417	1.200	H
ATOM	1401	CZ3	TRP	183	55.313	13.013	31.235	-0.1972	1.700	C
ATOM	1402	HZ3	TRP	183	55.654	13.606	30.400	0.1447	1.200	H
ATOM	1403	CE3	TRP	183	56.170	12.077	31.810	-0.2387	1.700	C
ATOM	1404	HE3	TRP	183	57.172	11.948	31.442	0.1700	1.200	H
ATOM	1405	CD2	TRP	183	55.720	11.338	32.911	0.1243	1.700	C
ATOM	1406	C	TRP	183	59.594	8.638	34.600	0.5973	1.700	C
ATOM	1407	O	TRP	183	60.215	8.285	33.579	-0.5679	1.500	O
ATOM	1408	N	ARG	184	59.693	8.003	35.767	-0.3479	1.550	N

ATOM	1409	H	ARG	184	59.175	8.347	36.560	0.2747	1.300	H
ATOM	1410	CA	ARG	184	60.538	6.827	35.953	-0.2637	1.700	C
ATOM	1411	HA	ARG	184	60.997	6.542	35.009	0.1560	1.200	H
ATOM	1412	CB	ARG	184	61.625	7.132	36.972	-0.0007	1.700	C
ATOM	1413	HB2	ARG	184	61.180	7.699	37.786	0.0327	1.200	H
ATOM	1414	HB3	ARG	184	62.007	6.201	37.396	0.0327	1.200	H
ATOM	1415	CG	ARG	184	62.770	7.902	36.401	0.0390	1.700	C
ATOM	1416	HG2	ARG	184	62.393	8.753	35.829	0.0285	1.200	H
ATOM	1417	HG3	ARG	184	63.407	8.260	37.200	0.0285	1.200	H
ATOM	1418	CD	ARG	184	63.608	6.987	35.548	0.0486	1.700	C
ATOM	1419	HD2	ARG	184	64.464	6.638	36.128	0.0687	1.200	H
ATOM	1420	HD3	ARG	184	63.042	6.106	35.245	0.0687	1.200	H
ATOM	1421	NE	ARG	184	64.079	7.641	34.331	-0.5295	1.550	N
ATOM	1422	HE	ARG	184	63.769	7.254	33.452	0.3456	1.300	H
ATOM	1423	CZ	ARG	184	64.884	8.701	34.306	0.8076	1.700	C
ATOM	1424	NH1	ARG	184	65.316	9.249	35.444	-0.8627	1.550	N
ATOM	1425	HH11	ARG	184	65.819	10.128	35.388	0.4478	1.300	H
ATOM	1426	HH12	ARG	184	64.991	8.907	36.332	0.4478	1.300	H
ATOM	1427	NH2	ARG	184	65.284	9.194	33.133	-0.8627	1.550	N
ATOM	1428	HH21	ARG	184	65.795	10.071	33.122	0.4478	1.300	H
ATOM	1429	HH22	ARG	184	64.924	8.822	32.267	0.4478	1.300	H
ATOM	1430	C	ARG	184	59.715	5.655	36.442	0.7341	1.700	C
ATOM	1431	O	ARG	184	59.072	5.730	37.482	-0.5894	1.500	O
ATOM	1432	N	PHE	185	59.718	4.574	35.685	-0.4157	1.550	N
ATOM	1433	H	PHE	185	60.253	4.565	34.825	0.2719	1.300	H
ATOM	1434	CA	PHE	185	58.975	3.386	36.067	-0.0024	1.700	C
ATOM	1435	HA	PHE	185	57.971	3.683	36.345	0.0978	1.200	H
ATOM	1436	CB	PHE	185	58.905	2.421	34.890	-0.0343	1.700	C
ATOM	1437	HB2	PHE	185	58.487	2.954	34.036	0.0295	1.200	H
ATOM	1438	HB3	PHE	185	59.910	2.101	34.608	0.0295	1.200	H
ATOM	1439	CG	PHE	185	58.049	1.214	35.146	0.0118	1.700	C
ATOM	1440	CD1	PHE	185	58.579	0.079	35.737	-0.1256	1.700	C
ATOM	1441	HD1	PHE	185	59.625	0.044	36.005	0.1330	1.200	H
ATOM	1442	CE1	PHE	185	57.781	-1.027	35.977	-0.1704	1.700	C
ATOM	1443	HE1	PHE	185	58.197	-1.923	36.400	0.1430	1.200	H
ATOM	1444	CZ	PHE	185	56.444	-1.005	35.625	-0.1072	1.700	C
ATOM	1445	HZ	PHE	185	55.824	-1.871	35.802	0.1297	1.200	H
ATOM	1446	CE2	PHE	185	55.911	0.114	35.039	-0.1704	1.700	C
ATOM	1447	HE2	PHE	185	54.885	0.111	34.714	0.1430	1.200	H
ATOM	1448	CD2	PHE	185	56.707	1.216	34.801	-0.1256	1.700	C
ATOM	1449	HD2	PHE	185	56.274	2.082	34.337	0.1330	1.200	H
ATOM	1450	C	PHE	185	59.693	2.702	37.205	0.5973	1.700	C
ATOM	1451	O	PHE	185	60.858	2.376	37.075	-0.5679	1.500	O
ATOM	1452	N	ASP	186	59.031	2.529	38.335	-0.5163	1.550	N
ATOM	1453	H	ASP	186	58.061	2.803	38.407	0.2936	1.300	H
ATOM	1454	CA	ASP	186	59.651	1.832	39.448	0.0381	1.700	C
ATOM	1455	HA	ASP	186	60.571	1.343	39.124	0.0880	1.200	H
ATOM	1456	CB	ASP	186	60.027	2.758	40.600	-0.0303	1.700	C
ATOM	1457	HB2	ASP	186	60.797	3.366	40.161	-0.0122	1.200	H
ATOM	1458	HB3	ASP	186	59.191	3.362	40.933	-0.0122	1.200	H
ATOM	1459	CG	ASP	186	60.701	2.011	41.767	0.7994	1.700	C
ATOM	1460	OD1	ASP	186	61.082	0.834	41.598	-0.8014	1.500	O
ATOM	1461	OD2	ASP	186	60.839	2.595	42.873	-0.8014	1.500	O
ATOM	1462	C	ASP	186	58.717	0.736	39.922	0.5366	1.700	C
ATOM	1463	O	ASP	186	57.872	0.928	40.796	-0.5819	1.500	O
ATOM	1464	N	SER	187	58.867	-0.404	39.269	-0.4157	1.550	N
ATOM	1465	H	SER	187	59.568	-0.434	38.544	0.2719	1.300	H
ATOM	1466	CA	SER	187	58.153	-1.648	39.513	-0.0249	1.700	C
ATOM	1467	HA	SER	187	57.243	-1.639	38.910	0.0843	1.200	H
ATOM	1468	CB	SER	187	59.078	-2.743	38.982	0.2117	1.700	C
ATOM	1469	HB2	SER	187	59.336	-2.568	37.941	0.0352	1.200	H
ATOM	1470	HB3	SER	187	60.006	-2.713	39.555	0.0352	1.200	H
ATOM	1471	OG	SER	187	58.541	-4.028	39.115	-0.6546	1.500	O
ATOM	1472	HG	SER	187	58.176	-4.124	39.999	0.4275	1.200	H
ATOM	1473	C	SER	187	57.757	-1.951	40.971	0.5973	1.700	C
ATOM	1474	O	SER	187	56.695	-2.503	41.232	-0.5679	1.500	O
ATOM	1475	N	ARG	188	58.591	-1.588	41.938	-0.3479	1.550	N
ATOM	1476	H	ARG	188	59.440	-1.080	41.729	0.2747	1.300	H
ATOM	1477	CA	ARG	188	58.262	-1.905	43.320	-0.2637	1.700	C
ATOM	1478	HA	ARG	188	57.878	-2.906	43.310	0.1560	1.200	H
ATOM	1479	CB	ARG	188	59.516	-1.974	44.168	-0.0007	1.700	C
ATOM	1480	HB2	ARG	188	59.261	-2.424	45.130	0.0327	1.200	H
ATOM	1481	HB3	ARG	188	60.204	-2.655	43.664	0.0327	1.200	H
ATOM	1482	CG	ARG	188	60.161	-0.669	44.413	0.0390	1.700	C
ATOM	1483	HG2	ARG	188	60.283	-0.126	43.498	0.0285	1.200	H
ATOM	1484	HG3	ARG	188	59.533	-0.076	45.080	0.0285	1.200	H
ATOM	1485	CD	ARG	188	61.493	-0.901	45.089	0.0486	1.700	C

ATOM	1486	HD2	ARG	188	61.854	0.046	45.490	0.0687	1.200	H
ATOM	1487	HD3	ARG	188	61.360	-1.580	45.933	0.0687	1.200	H
ATOM	1488	NE	ARG	188	62.425	-1.490	44.143	-0.5295	1.550	N
ATOM	1489	HE	ARG	188	62.270	-2.450	43.876	0.3456	1.300	H
ATOM	1490	CZ	ARG	188	63.443	-0.835	43.599	0.8076	1.700	C
ATOM	1491	NH1	ARG	188	63.673	0.445	43.920	-0.8627	1.550	N
ATOM	1492	HH11	ARG	188	63.048	0.916	44.557	0.4478	1.300	H
ATOM	1493	HH12	ARG	188	64.424	0.951	43.480	0.4478	1.300	H
ATOM	1494	NH2	ARG	188	64.203	-1.458	42.695	-0.8627	1.550	N
ATOM	1495	HH21	ARG	188	64.983	-0.977	42.275	0.4478	1.300	H
ATOM	1496	HH22	ARG	188	63.990	-2.405	42.420	0.4478	1.300	H
ATOM	1497	C	ARG	188	57.208	-1.022	43.964	0.7341	1.700	C
ATOM	1498	O	ARG	188	56.766	-1.261	45.101	-0.5894	1.500	O
ATOM	1499	N	LEU	189	56.778	-0.013	43.227	-0.4157	1.550	N
ATOM	1500	H	LEU	189	57.145	0.139	42.300	0.2719	1.300	H
ATOM	1501	CA	LEU	189	55.746	0.869	43.723	-0.0518	1.700	C
ATOM	1502	HA	LEU	189	55.981	1.151	44.747	0.0922	1.200	H
ATOM	1503	CB	LEU	189	55.662	2.127	42.847	-0.1102	1.700	C
ATOM	1504	HB2	LEU	189	55.636	1.816	41.806	0.0457	1.200	H
ATOM	1505	HB3	LEU	189	54.733	2.657	43.062	0.0457	1.200	H
ATOM	1506	CG	LEU	189	56.852	3.082	43.079	0.3531	1.700	C
ATOM	1507	HG	LEU	189	57.782	2.518	43.005	-0.0361	1.200	H
ATOM	1508	CD1	LEU	189	56.904	4.155	42.035	-0.4121	1.700	C
ATOM	1509	HD11	LEU	189	57.789	4.769	42.182	0.1000	1.200	H
ATOM	1510	HD12	LEU	189	56.932	3.710	41.040	0.1000	1.200	H
ATOM	1511	HD13	LEU	189	56.021	4.784	42.108	0.1000	1.200	H
ATOM	1512	CD2	LEU	189	56.782	3.685	44.477	-0.4121	1.700	C
ATOM	1513	HD21	LEU	189	57.570	4.431	44.593	0.1000	1.200	H
ATOM	1514	HD22	LEU	189	55.807	4.150	44.648	0.1000	1.200	H
ATOM	1515	HD23	LEU	189	56.959	2.909	45.221	0.1000	1.200	H
ATOM	1516	C	LEU	189	54.421	0.091	43.787	0.5973	1.700	C
ATOM	1517	O	LEU	189	53.488	0.494	44.476	-0.5679	1.500	O
ATOM	1518	N	ALA	190	54.360	-1.064	43.131	-0.4157	1.550	N
ATOM	1519	H	ALA	190	55.139	-1.378	42.570	0.2719	1.300	H
ATOM	1520	CA	ALA	190	53.143	-1.880	43.166	0.0337	1.700	C
ATOM	1521	HA	ALA	190	52.265	-1.233	43.195	0.0823	1.200	H
ATOM	1522	CB	ALA	190	53.049	-2.730	41.930	-0.1825	1.700	C
ATOM	1523	HB1	ALA	190	52.979	-2.095	41.053	0.0603	1.200	H
ATOM	1524	HB2	ALA	190	53.926	-3.373	41.847	0.0603	1.200	H
ATOM	1525	HB3	ALA	190	52.155	-3.349	41.966	0.0603	1.200	H
ATOM	1526	C	ALA	190	53.139	-2.755	44.420	0.5973	1.700	C
ATOM	1527	O	ALA	190	52.120	-3.335	44.798	-0.5679	1.500	O
ATOM	1528	N	PHE	191	54.267	-2.787	45.116	-0.4157	1.550	N
ATOM	1529	H	PHE	191	55.080	-2.282	44.794	0.2719	1.300	H
ATOM	1530	CA	PHE	191	54.384	-3.603	46.311	-0.0024	1.700	C
ATOM	1531	HA	PHE	191	53.479	-4.185	46.484	0.0978	1.200	H
ATOM	1532	CB	PHE	191	55.541	-4.593	46.117	-0.0343	1.700	C
ATOM	1533	HB2	PHE	191	56.479	-4.038	46.057	0.0295	1.200	H
ATOM	1534	HB3	PHE	191	55.600	-5.243	46.992	0.0295	1.200	H
ATOM	1535	CG	PHE	191	55.391	-5.454	44.888	0.0118	1.700	C
ATOM	1536	CD1	PHE	191	54.479	-6.503	44.869	-0.1256	1.700	C
ATOM	1537	HD1	PHE	191	53.911	-6.732	45.760	0.1330	1.200	H
ATOM	1538	CE1	PHE	191	54.266	-7.241	43.725	-0.1704	1.700	C
ATOM	1539	HE1	PHE	191	53.540	-8.041	43.723	0.1430	1.200	H
ATOM	1540	CZ	PHE	191	54.974	-6.942	42.571	-0.1072	1.700	C
ATOM	1541	HZ	PHE	191	54.813	-7.518	41.671	0.1297	1.200	H
ATOM	1542	CE2	PHE	191	55.889	-5.910	42.578	-0.1704	1.700	C
ATOM	1543	HE2	PHE	191	56.440	-5.671	41.680	0.1430	1.200	H
ATOM	1544	CD2	PHE	191	56.095	-5.168	43.740	-0.1256	1.700	C
ATOM	1545	HD2	PHE	191	56.805	-4.379	43.750	0.1330	1.200	H
ATOM	1546	C	PHE	191	54.618	-2.757	47.543	0.5973	1.700	C
ATOM	1547	O	PHE	191	54.539	-3.252	48.665	-0.5679	1.500	O
ATOM	1548	N	HIS	192	54.939	-1.483	47.325	-0.4157	1.550	N
ATOM	1549	H	HIS	192	55.013	-1.142	46.378	0.2719	1.300	H
ATOM	1550	CA	HIS	192	55.212	-0.540	48.406	-0.0581	1.700	C
ATOM	1551	HA	HIS	192	54.871	-0.949	49.359	0.1360	1.200	H
ATOM	1552	CB	HIS	192	56.712	-0.296	48.517	-0.0074	1.700	C
ATOM	1553	HB2	HIS	192	57.137	-0.107	47.531	0.0367	1.200	H
ATOM	1554	HB3	HIS	192	56.884	0.594	49.127	0.0367	1.200	H
ATOM	1555	CG	HIS	192	57.446	-1.415	49.165	0.1868	1.700	C
ATOM	1556	ND1	HIS	192	57.548	-1.533	50.535	-0.5432	1.550	N
ATOM	1557	CE1	HIS	192	58.200	-2.643	50.830	0.1635	1.700	C
ATOM	1558	HE1	HIS	192	58.435	-2.990	51.826	0.1435	1.200	H
ATOM	1559	NE2	HIS	192	58.525	-3.242	49.700	-0.2795	1.550	N
ATOM	1560	HE2	HIS	192	59.033	-4.111	49.626	0.3339	1.300	H
ATOM	1561	CD2	HIS	192	58.068	-2.495	48.644	-0.2207	1.700	C
ATOM	1562	HD2	HIS	192	58.158	-2.735	47.595	0.1862	1.200	H

ATOM	1563	C	HIS	192	54.554	0.808	48.224	0.5973	1.700	C
ATOM	1564	O	HIS	192	54.979	1.602	47.376	-0.5679	1.500	O
ATOM	1565	N	HIS	193	53.575	1.113	49.066	-0.4157	1.550	N
ATOM	1566	H	HIS	193	53.302	0.473	49.798	0.2719	1.300	H
ATOM	1567	CA	HIS	193	52.927	2.412	48.960	-0.0581	1.700	C
ATOM	1568	HA	HIS	193	52.783	2.630	47.902	0.1360	1.200	H
ATOM	1569	CB	HIS	193	51.573	2.399	49.652	-0.0074	1.700	C
ATOM	1570	HB2	HIS	193	51.112	1.428	49.460	0.0367	1.200	H
ATOM	1571	HB3	HIS	193	51.659	2.488	50.735	0.0367	1.200	H
ATOM	1572	CG	HIS	193	50.621	3.413	49.109	0.1868	1.700	C
ATOM	1573	ND1	HIS	193	49.394	3.665	49.682	-0.5432	1.550	N
ATOM	1574	CE1	HIS	193	48.756	4.573	48.966	0.1635	1.700	C
ATOM	1575	HE1	HIS	193	47.773	4.967	49.176	0.1435	1.200	H
ATOM	1576	NE2	HIS	193	49.527	4.920	47.954	-0.2795	1.550	N
ATOM	1577	HE2	HIS	193	49.297	5.602	47.249	0.3339	1.300	H
ATOM	1578	CD2	HIS	193	50.699	4.210	48.019	-0.2207	1.700	C
ATOM	1579	HD2	HIS	193	51.519	4.274	47.318	0.1862	1.200	H
ATOM	1580	C	HIS	193	53.827	3.488	49.586	0.5973	1.700	C
ATOM	1581	O	HIS	193	53.520	4.022	50.649	-0.5679	1.500	O
ATOM	1582	N	VAL	194	54.913	3.835	48.909	-0.4157	1.550	N
ATOM	1583	H	VAL	194	55.149	3.363	48.048	0.2719	1.300	H
ATOM	1584	CA	VAL	194	55.836	4.826	49.445	-0.0875	1.700	C
ATOM	1585	HA	VAL	194	56.280	4.405	50.350	0.0969	1.200	H
ATOM	1586	CB	VAL	194	56.951	5.113	48.459	0.2985	1.700	C
ATOM	1587	HB	VAL	194	56.543	5.593	47.567	-0.0297	1.200	H
ATOM	1588	CG1	VAL	194	57.961	6.033	49.075	-0.3192	1.700	C
ATOM	1589	HG11	VAL	194	58.825	6.137	48.418	0.0791	1.200	H
ATOM	1590	HG12	VAL	194	57.514	7.015	49.194	0.0791	1.200	H
ATOM	1591	HG13	VAL	194	58.289	5.652	50.044	0.0791	1.200	H
ATOM	1592	CG2	VAL	194	57.591	3.801	48.030	-0.3192	1.700	C
ATOM	1593	HG21	VAL	194	58.466	4.002	47.413	0.0791	1.200	H
ATOM	1594	HG22	VAL	194	57.902	3.229	48.907	0.0791	1.200	H
ATOM	1595	HG23	VAL	194	56.905	3.206	47.437	0.0791	1.200	H
ATOM	1596	C	VAL	194	55.152	6.125	49.821	0.5973	1.700	C
ATOM	1597	O	VAL	194	55.294	6.587	50.944	-0.5679	1.500	O
ATOM	1598	N	ALA	195	54.369	6.680	48.898	-0.4157	1.550	N
ATOM	1599	H	ALA	195	54.272	6.231	48.000	0.2719	1.300	H
ATOM	1600	CA	ALA	195	53.654	7.943	49.117	0.0337	1.700	C
ATOM	1601	HA	ALA	195	54.394	8.743	49.136	0.0823	1.200	H
ATOM	1602	CB	ALA	195	52.695	8.219	47.985	-0.1825	1.700	C
ATOM	1603	HB1	ALA	195	52.136	9.126	48.203	0.0603	1.200	H
ATOM	1604	HB2	ALA	195	53.256	8.359	47.062	0.0603	1.200	H
ATOM	1605	HB3	ALA	195	51.997	7.388	47.872	0.0603	1.200	H
ATOM	1606	C	ALA	195	52.909	7.981	50.422	0.5973	1.700	C
ATOM	1607	O	ALA	195	52.924	8.995	51.105	-0.5679	1.500	O
ATOM	1608	N	ARG	196	52.282	6.873	50.783	-0.3479	1.550	N
ATOM	1609	H	ARG	196	52.327	6.055	50.192	0.2747	1.300	H
ATOM	1610	CA	ARG	196	51.525	6.797	52.025	-0.2637	1.700	C
ATOM	1611	HA	ARG	196	50.934	7.697	52.161	0.1560	1.200	H
ATOM	1612	CB	ARG	196	50.611	5.583	51.990	-0.0007	1.700	C
ATOM	1613	HB2	ARG	196	50.100	5.644	51.035	0.0327	1.200	H
ATOM	1614	HB3	ARG	196	51.214	4.674	52.017	0.0327	1.200	H
ATOM	1615	CG	ARG	196	49.543	5.526	53.044	0.0390	1.700	C
ATOM	1616	HG2	ARG	196	49.979	5.559	54.043	0.0285	1.200	H
ATOM	1617	HG3	ARG	196	48.858	6.361	52.918	0.0285	1.200	H
ATOM	1618	CD	ARG	196	48.814	4.229	52.864	0.0486	1.700	C
ATOM	1619	HD2	ARG	196	48.565	4.112	51.821	0.0687	1.200	H
ATOM	1620	HD3	ARG	196	49.478	3.418	53.161	0.0687	1.200	H
ATOM	1621	NE	ARG	196	47.529	4.181	53.542	-0.5295	1.550	N
ATOM	1622	HE	ARG	196	46.951	5.009	53.505	0.3456	1.300	H
ATOM	1623	CZ	ARG	196	47.069	3.101	54.177	0.8076	1.700	C
ATOM	1624	NH1	ARG	196	47.805	1.988	54.232	-0.8627	1.550	N
ATOM	1625	HH11	ARG	196	47.452	1.167	54.696	0.4478	1.300	H
ATOM	1626	HH12	ARG	196	48.724	1.977	53.818	0.4478	1.300	H
ATOM	1627	NH2	ARG	196	45.839	3.100	54.691	-0.8627	1.550	N
ATOM	1628	HH21	ARG	196	45.260	3.924	54.610	0.4478	1.300	H
ATOM	1629	HH22	ARG	196	45.499	2.294	55.192	0.4478	1.300	H
ATOM	1630	C	ARG	196	52.463	6.688	53.214	0.7341	1.700	C
ATOM	1631	O	ARG	196	52.136	7.124	54.320	-0.5894	1.500	O
ATOM	1632	N	GLU	197	53.625	6.087	52.996	-0.5163	1.550	N
ATOM	1633	H	GLU	197	53.854	5.743	52.074	0.2936	1.300	H
ATOM	1634	CA	GLU	197	54.596	5.928	54.068	0.0397	1.700	C
ATOM	1635	HA	GLU	197	54.123	5.461	54.933	0.1105	1.200	H
ATOM	1636	CB	GLU	197	55.763	5.063	53.606	0.0560	1.700	C
ATOM	1637	HB2	GLU	197	56.276	5.491	52.753	-0.0173	1.200	H
ATOM	1638	HB3	GLU	197	56.486	5.062	54.423	-0.0173	1.200	H
ATOM	1639	CG	GLU	197	55.415	3.613	53.316	0.0136	1.700	C

ATOM	1640	HG2	GLU	197	55.037	3.164	54.236	-0.0425	1.200	H
ATOM	1641	HG3	GLU	197	54.629	3.538	52.587	-0.0425	1.200	H
ATOM	1642	CD	GLU	197	56.622	2.810	52.859	0.8054	1.700	C
ATOM	1643	OE1	GLU	197	57.766	3.307	53.004	-0.8188	1.500	O
ATOM	1644	OE2	GLU	197	56.438	1.677	52.357	-0.8188	1.500	O
ATOM	1645	C	GLU	197	55.115	7.295	54.457	0.5366	1.700	C
ATOM	1646	O	GLU	197	55.000	7.709	55.601	-0.5819	1.500	O
ATOM	1647	N	LEU	198	55.620	8.005	53.457	-0.4157	1.550	N
ATOM	1648	H	LEU	198	55.640	7.587	52.538	0.2719	1.300	H
ATOM	1649	CA	LEU	198	56.201	9.327	53.607	-0.0518	1.700	C
ATOM	1650	HA	LEU	198	56.823	9.319	54.502	0.0922	1.200	H
ATOM	1651	CB	LEU	198	57.089	9.617	52.412	-0.1102	1.700	C
ATOM	1652	HB2	LEU	198	56.433	9.771	51.552	0.0457	1.200	H
ATOM	1653	HB3	LEU	198	57.620	10.555	52.584	0.0457	1.200	H
ATOM	1654	CG	LEU	198	58.095	8.541	52.040	0.3531	1.700	C
ATOM	1655	HG	LEU	198	57.597	7.581	51.915	-0.0361	1.200	H
ATOM	1656	CD1	LEU	198	58.733	8.881	50.699	-0.4121	1.700	C
ATOM	1657	HD11	LEU	198	59.406	8.080	50.394	0.1000	1.200	H
ATOM	1658	HD12	LEU	198	57.962	9.025	49.945	0.1000	1.200	H
ATOM	1659	HD13	LEU	198	59.304	9.806	50.789	0.1000	1.200	H
ATOM	1660	CD2	LEU	198	59.125	8.407	53.137	-0.4121	1.700	C
ATOM	1661	HD21	LEU	198	59.873	7.670	52.844	0.1000	1.200	H
ATOM	1662	HD22	LEU	198	59.617	9.363	53.317	0.1000	1.200	H
ATOM	1663	HD23	LEU	198	58.655	8.061	54.058	0.1000	1.200	H
ATOM	1664	C	LEU	198	55.245	10.497	53.739	0.5973	1.700	C
ATOM	1665	O	LEU	198	55.654	11.552	54.203	-0.5679	1.500	O
ATOM	1666	N	HIS	199	54.016	10.358	53.250	-0.4157	1.550	N
ATOM	1667	H	HIS	199	53.733	9.482	52.836	0.2719	1.300	H
ATOM	1668	CA	HIS	199	53.040	11.452	53.295	-0.0581	1.700	C
ATOM	1669	HA	HIS	199	53.323	12.181	54.055	0.1360	1.200	H
ATOM	1670	CB	HIS	199	52.964	12.176	51.953	-0.0074	1.700	C
ATOM	1671	HB2	HIS	199	52.730	11.475	51.153	0.0367	1.200	H
ATOM	1672	HB3	HIS	199	52.170	12.916	51.980	0.0367	1.200	H
ATOM	1673	CG	HIS	199	54.209	12.911	51.590	0.1868	1.700	C
ATOM	1674	ND1	HIS	199	55.183	12.623	50.698	-0.5432	1.550	N
ATOM	1675	CE1	HIS	199	56.095	13.645	50.749	0.1635	1.700	C
ATOM	1676	HE1	HIS	199	57.001	13.707	50.164	0.1435	1.200	H
ATOM	1677	NE2	HIS	199	55.699	14.530	51.646	-0.2795	1.550	N
ATOM	1678	HE2	HIS	199	56.193	15.367	51.920	0.3339	1.300	H
ATOM	1679	CD2	HIS	199	54.560	14.111	52.169	-0.2207	1.700	C
ATOM	1680	HD2	HIS	199	54.028	14.600	52.969	0.1862	1.200	H
ATOM	1681	C	HIS	199	51.652	10.985	53.624	0.5973	1.700	C
ATOM	1682	O	HIS	199	50.720	11.191	52.845	-0.5679	1.500	O
ATOM	1683	N	PRO	200	51.469	10.416	54.813	-0.2548	1.550	N
ATOM	1684	CD	PRO	200	52.433	10.194	55.897	0.0192	1.700	C
ATOM	1685	HD2	PRO	200	53.153	11.007	55.985	0.0391	1.200	H
ATOM	1686	HD3	PRO	200	52.932	9.234	55.770	0.0391	1.200	H
ATOM	1687	CG	PRO	200	51.536	10.169	57.075	0.0189	1.700	C
ATOM	1688	HG2	PRO	200	51.228	11.182	57.340	0.0213	1.200	H
ATOM	1689	HG3	PRO	200	52.016	9.685	57.926	0.0213	1.200	H
ATOM	1690	CB	PRO	200	50.378	9.382	56.589	-0.0070	1.700	C
ATOM	1691	HB2	PRO	200	49.507	9.506	57.234	0.0253	1.200	H
ATOM	1692	HB3	PRO	200	50.648	8.326	56.525	0.0253	1.200	H
ATOM	1693	CA	PRO	200	50.144	9.939	55.193	-0.0266	1.700	C
ATOM	1694	HA	PRO	200	49.839	9.119	54.549	0.0641	1.200	H
ATOM	1695	C	PRO	200	49.092	11.041	55.208	0.5896	1.700	C
ATOM	1696	O	PRO	200	47.892	10.749	55.188	-0.5748	1.500	O
ATOM	1697	N	GLU	201	49.524	12.304	55.237	-0.5163	1.550	N
ATOM	1698	H	GLU	201	50.511	12.524	55.232	0.2936	1.300	H
ATOM	1699	CA	GLU	201	48.564	13.400	55.268	0.0397	1.700	C
ATOM	1700	HA	GLU	201	47.970	13.258	56.172	0.1105	1.200	H
ATOM	1701	CB	GLU	201	49.255	14.762	55.415	0.0560	1.700	C
ATOM	1702	HB2	GLU	201	48.472	15.451	55.735	-0.0173	1.200	H
ATOM	1703	HB3	GLU	201	49.974	14.746	56.235	-0.0173	1.200	H
ATOM	1704	CG	GLU	201	49.826	15.349	54.155	0.0136	1.700	C
ATOM	1705	HG2	GLU	201	49.205	15.152	53.283	-0.0425	1.200	H
ATOM	1706	HG3	GLU	201	49.845	16.433	54.282	-0.0425	1.200	H
ATOM	1707	CD	GLU	201	51.240	14.918	53.898	0.8054	1.700	C
ATOM	1708	OE1	GLU	201	51.837	14.289	54.789	-0.8188	1.500	O
ATOM	1709	OE2	GLU	201	51.765	15.210	52.800	-0.8188	1.500	O
ATOM	1710	C	GLU	201	47.570	13.369	54.085	0.5366	1.700	C
ATOM	1711	O	GLU	201	46.412	13.779	54.230	-0.5819	1.500	O
ATOM	1712	N	TYR	202	47.982	12.816	52.949	-0.4157	1.550	N
ATOM	1713	H	TYR	202	48.926	12.464	52.868	0.2719	1.300	H
ATOM	1714	CA	TYR	202	47.084	12.733	51.813	-0.0014	1.700	C
ATOM	1715	HA	TYR	202	46.472	13.633	51.766	0.0876	1.200	H
ATOM	1716	CB	TYR	202	47.879	12.617	50.530	-0.0152	1.700	C

ATOM	1717	HB2	TYR	202	48.439	11.681	50.541	0.0295	1.200	H
ATOM	1718	HB3	TYR	202	47.186	12.586	49.689	0.0295	1.200	H
ATOM	1719	CG	TYR	202	48.818	13.763	50.312	-0.0011	1.700	C
ATOM	1720	CD1	TYR	202	48.355	15.063	50.322	-0.1906	1.700	C
ATOM	1721	HD1	TYR	202	47.309	15.261	50.501	0.1699	1.200	H
ATOM	1722	CE1	TYR	202	49.211	16.136	50.087	-0.2341	1.700	C
ATOM	1723	HE1	TYR	202	48.828	17.145	50.102	0.1656	1.200	H
ATOM	1724	CZ	TYR	202	50.544	15.911	49.837	0.3226	1.700	C
ATOM	1725	OH	TYR	202	51.363	16.987	49.607	-0.5579	1.500	O
ATOM	1726	HH	TYR	202	52.281	16.724	49.520	0.3992	1.200	H
ATOM	1727	CE2	TYR	202	51.037	14.621	49.823	-0.2341	1.700	C
ATOM	1728	HE2	TYR	202	52.080	14.393	49.773	0.1656	1.200	H
ATOM	1729	CD2	TYR	202	50.170	13.552	50.063	-0.1906	1.700	C
ATOM	1730	HD2	TYR	202	50.567	12.547	50.091	0.1699	1.200	H
ATOM	1731	C	TYR	202	46.141	11.535	51.957	0.5973	1.700	C
ATOM	1732	O	TYR	202	45.340	11.255	51.074	-0.5679	1.500	O
ATOM	1733	N	PHE	203	46.256	10.811	53.063	-0.3821	1.550	N
ATOM	1734	H	PHE	203	46.899	11.101	53.780	0.2681	1.300	H
ATOM	1735	CA	PHE	203	45.405	9.647	53.329	-0.1825	1.700	C
ATOM	1736	HA	PHE	203	44.542	9.630	52.664	0.1098	1.200	H
ATOM	1737	CB	PHE	203	46.203	8.339	53.173	-0.0959	1.700	C
ATOM	1738	HB2	PHE	203	46.847	8.175	54.037	0.0443	1.200	H
ATOM	1739	HB3	PHE	203	45.503	7.503	53.130	0.0443	1.200	H
ATOM	1740	CG	PHE	203	47.097	8.312	51.987	0.0552	1.700	C
ATOM	1741	CD1	PHE	203	48.351	8.877	52.045	-0.1300	1.700	C
ATOM	1742	HD1	PHE	203	48.671	9.364	52.944	0.1408	1.200	H
ATOM	1743	CE1	PHE	203	49.176	8.907	50.923	-0.1847	1.700	C
ATOM	1744	HE1	PHE	203	50.140	9.391	50.972	0.1461	1.200	H
ATOM	1745	CZ	PHE	203	48.747	8.369	49.745	-0.0944	1.700	C
ATOM	1746	HZ	PHE	203	49.380	8.395	48.871	0.1280	1.200	H
ATOM	1747	CE2	PHE	203	47.484	7.792	49.683	-0.1847	1.700	C
ATOM	1748	HE2	PHE	203	47.124	7.386	48.749	0.1461	1.200	H
ATOM	1749	CD2	PHE	203	46.671	7.768	50.802	-0.1300	1.700	C
ATOM	1750	HD2	PHE	203	45.685	7.332	50.731	0.1408	1.200	H
ATOM	1751	C	PHE	203	44.906	9.748	54.779	0.7660	1.700	C
ATOM	1752	O	PHE	203	43.809	10.248	55.056	-0.8026	1.500	O
ATOM	1753	OXT	PHE	203	45.609	9.358	55.709	-0.8026	1.500	O
TER										
ATOM	1754	N	ARG	71	29.767	14.413	17.375	0.1305	1.550	N
ATOM	1755	H1	ARG	71	30.431	13.996	16.740	0.2083	1.300	H
ATOM	1756	H2	ARG	71	28.849	14.405	16.954	0.2083	1.300	H
ATOM	1757	H3	ARG	71	29.749	13.881	18.233	0.2083	1.300	H
ATOM	1758	CA	ARG	71	30.161	15.790	17.668	-0.0223	1.700	C
ATOM	1759	HA	ARG	71	30.176	16.363	16.744	0.1242	1.200	H
ATOM	1760	CB	ARG	71	29.120	16.415	18.599	0.0118	1.700	C
ATOM	1761	HB2	ARG	71	28.128	16.140	18.233	0.0226	1.200	H
ATOM	1762	HB3	ARG	71	29.227	15.987	19.598	0.0226	1.200	H
ATOM	1763	CG	ARG	71	29.155	17.914	18.685	0.0236	1.700	C
ATOM	1764	HG2	ARG	71	30.149	18.207	19.027	0.0309	1.200	H
ATOM	1765	HG3	ARG	71	28.980	18.356	17.703	0.0309	1.200	H
ATOM	1766	CD	ARG	71	28.113	18.414	19.664	0.0935	1.700	C
ATOM	1767	HD2	ARG	71	27.187	18.633	19.130	0.0527	1.200	H
ATOM	1768	HD3	ARG	71	27.914	17.642	20.409	0.0527	1.200	H
ATOM	1769	NE	ARG	71	28.584	19.605	20.363	-0.5650	1.550	N
ATOM	1770	HE	ARG	71	29.454	20.012	20.054	0.3592	1.300	H
ATOM	1771	CZ	ARG	71	27.956	20.174	21.389	0.8281	1.700	C
ATOM	1772	NH1	ARG	71	26.819	19.658	21.847	-0.8693	1.550	N
ATOM	1773	HH11	ARG	71	26.340	20.098	22.618	0.4494	1.300	H
ATOM	1774	HH12	ARG	71	26.429	18.836	21.413	0.4494	1.300	H
ATOM	1775	NH2	ARG	71	28.459	21.270	21.954	-0.8693	1.550	N
ATOM	1776	HH21	ARG	71	27.966	21.718	22.712	0.4494	1.300	H
ATOM	1777	HH22	ARG	71	29.334	21.656	21.631	0.4494	1.300	H
ATOM	1778	C	ARG	71	31.562	15.745	18.312	0.7214	1.700	C
ATOM	1779	O	ARG	71	31.727	15.309	19.457	-0.6013	1.500	O
ATOM	1780	N	PRO	72	32.593	16.165	17.567	-0.2548	1.550	N
ATOM	1781	CD	PRO	72	32.490	16.742	16.225	0.0192	1.700	C
ATOM	1782	HD2	PRO	72	32.371	17.825	16.282	0.0391	1.200	H
ATOM	1783	HD3	PRO	72	31.706	16.287	15.621	0.0391	1.200	H
ATOM	1784	CG	PRO	72	33.813	16.382	15.660	0.0189	1.700	C
ATOM	1785	HG2	PRO	72	34.048	16.984	14.781	0.0213	1.200	H
ATOM	1786	HG3	PRO	72	33.844	15.318	15.414	0.0213	1.200	H
ATOM	1787	CB	PRO	72	34.732	16.679	16.785	-0.0070	1.700	C
ATOM	1788	HB2	PRO	72	34.891	17.758	16.847	0.0253	1.200	H
ATOM	1789	HB3	PRO	72	35.689	16.169	16.663	0.0253	1.200	H
ATOM	1790	CA	PRO	72	33.985	16.175	18.016	-0.0266	1.700	C
ATOM	1791	HA	PRO	72	34.292	15.149	18.225	0.0641	1.200	H
ATOM	1792	C	PRO	72	34.294	17.062	19.215	0.5896	1.700	C

ATOM	1793	O	PRO	72	33.609	18.051	19.455	-0.5748	1.500	O
ATOM	1794	N	GLN	73	35.342	16.700	19.959	-0.4157	1.550	N
ATOM	1795	H	GLN	73	35.877	15.884	19.705	0.2719	1.300	H
ATOM	1796	CA	GLN	73	35.793	17.481	21.111	-0.0031	1.700	C
ATOM	1797	HA	GLN	73	34.962	17.663	21.795	0.0850	1.200	H
ATOM	1798	CB	GLN	73	36.956	16.784	21.827	-0.0036	1.700	C
ATOM	1799	HB2	GLN	73	36.791	15.707	21.765	0.0171	1.200	H
ATOM	1800	HB3	GLN	73	37.901	16.991	21.322	0.0171	1.200	H
ATOM	1801	CG	GLN	73	37.078	17.112	23.316	-0.0645	1.700	C
ATOM	1802	HG2	GLN	73	36.133	16.882	23.812	0.0352	1.200	H
ATOM	1803	HG3	GLN	73	37.847	16.470	23.749	0.0352	1.200	H
ATOM	1804	CD	GLN	73	37.448	18.547	23.581	0.6951	1.700	C
ATOM	1805	OE1	GLN	73	36.517	19.309	24.112	-0.6086	1.500	O
ATOM	1806	NE2	GLN	73	38.556	18.967	23.297	-0.9407	1.550	N
ATOM	1807	HE21	GLN	73	38.740	19.957	23.388	0.4251	1.300	H
ATOM	1808	HE22	GLN	73	39.275	18.346	22.946	0.4251	1.300	H
ATOM	1809	C	GLN	73	36.291	18.763	20.468	0.5973	1.700	C
ATOM	1810	O	GLN	73	37.039	18.735	19.485	-0.5679	1.500	O
ATOM	1811	N	VAL	74	35.847	19.885	20.999	-0.4157	1.550	N
ATOM	1812	H	VAL	74	35.259	19.860	21.821	0.2719	1.300	H
ATOM	1813	CA	VAL	74	36.207	21.178	20.445	-0.0875	1.700	C
ATOM	1814	HA	VAL	74	35.951	21.108	19.390	0.0969	1.200	H
ATOM	1815	CB	VAL	74	35.298	22.262	21.082	0.2985	1.700	C
ATOM	1816	HB	VAL	74	34.676	21.807	21.857	-0.0297	1.200	H
ATOM	1817	CG1	VAL	74	36.092	23.346	21.746	-0.3192	1.700	C
ATOM	1818	HG11	VAL	74	35.401	24.035	22.225	0.0791	1.200	H
ATOM	1819	HG12	VAL	74	36.729	22.882	22.490	0.0791	1.200	H
ATOM	1820	HG13	VAL	74	36.676	23.908	21.018	0.0791	1.200	H
ATOM	1821	CG2	VAL	74	34.371	22.803	20.032	-0.3192	1.700	C
ATOM	1822	HG21	VAL	74	33.691	23.527	20.483	0.0791	1.200	H
ATOM	1823	HG22	VAL	74	34.936	23.294	19.240	0.0791	1.200	H
ATOM	1824	HG23	VAL	74	33.780	21.991	19.606	0.0791	1.200	H
ATOM	1825	C	VAL	74	37.704	21.478	20.543	0.5973	1.700	C
ATOM	1826	O	VAL	74	38.379	20.999	21.448	-0.5679	1.500	O
ATOM	1827	N	PRO	75	38.261	22.191	19.555	-0.2548	1.550	N
ATOM	1828	CD	PRO	75	37.672	22.677	18.299	0.0192	1.700	C
ATOM	1829	HD2	PRO	75	37.162	23.626	18.468	0.0391	1.200	H
ATOM	1830	HD3	PRO	75	37.008	21.947	17.837	0.0391	1.200	H
ATOM	1831	CG	PRO	75	38.888	22.882	17.431	0.0189	1.700	C
ATOM	1832	HG2	PRO	75	38.694	23.603	16.637	0.0213	1.200	H
ATOM	1833	HG3	PRO	75	39.211	21.928	17.010	0.0213	1.200	H
ATOM	1834	CB	PRO	75	39.904	23.385	18.392	-0.0070	1.700	C
ATOM	1835	HB2	PRO	75	39.695	24.430	18.631	0.0253	1.200	H
ATOM	1836	HB3	PRO	75	40.916	23.281	17.998	0.0253	1.200	H
ATOM	1837	CA	PRO	75	39.688	22.499	19.617	-0.0266	1.700	C
ATOM	1838	HA	PRO	75	40.265	21.578	19.519	0.0641	1.200	H
ATOM	1839	C	PRO	75	40.028	23.229	20.910	0.5896	1.700	C
ATOM	1840	O	PRO	75	39.265	24.066	21.403	-0.5748	1.500	O
ATOM	1841	N	LEU	76	41.162	22.856	21.478	-0.4157	1.550	N
ATOM	1842	H	LEU	76	41.730	22.155	21.026	0.2719	1.300	H
ATOM	1843	CA	LEU	76	41.658	23.415	22.722	-0.0518	1.700	C
ATOM	1844	HA	LEU	76	40.878	23.339	23.475	0.0922	1.200	H
ATOM	1845	CB	LEU	76	42.855	22.556	23.166	-0.1102	1.700	C
ATOM	1846	HB2	LEU	76	42.384	21.603	23.413	0.0457	1.200	H
ATOM	1847	HB3	LEU	76	43.441	22.354	22.266	0.0457	1.200	H
ATOM	1848	CG	LEU	76	43.880	22.829	24.271	0.3531	1.700	C
ATOM	1849	HG	LEU	76	43.367	23.176	25.168	-0.0361	1.200	H
ATOM	1850	CD1	LEU	76	44.548	21.503	24.582	-0.4121	1.700	C
ATOM	1851	HD11	LEU	76	45.333	21.635	25.325	0.1000	1.200	H
ATOM	1852	HD12	LEU	76	43.817	20.772	24.930	-0.1000	1.200	H
ATOM	1853	HD13	LEU	76	45.019	21.110	23.680	0.1000	1.200	H
ATOM	1854	CD2	LEU	76	44.932	23.864	23.852	-0.4121	1.700	C
ATOM	1855	HD21	LEU	76	45.824	23.772	24.476	0.1000	1.200	H
ATOM	1856	HD22	LEU	76	45.213	23.726	22.804	0.1000	1.200	H
ATOM	1857	HD23	LEU	76	44.524	24.868	23.985	0.1000	1.200	H
ATOM	1858	C	LEU	76	42.062	24.867	22.516	0.5973	1.700	C
ATOM	1859	O	LEU	76	42.506	25.239	21.433	-0.5679	1.500	O
ATOM	1860	N	ARG	77	41.872	25.690	23.537	-0.3479	1.550	N
ATOM	1861	H	ARG	77	41.508	25.340	24.410	0.2747	1.300	H
ATOM	1862	CA	ARG	77	42.250	27.094	23.464	-0.2637	1.700	C
ATOM	1863	HA	ARG	77	43.186	27.171	22.910	0.1560	1.200	H
ATOM	1864	CB	ARG	77	41.189	27.934	22.758	-0.0007	1.700	C
ATOM	1865	HB2	ARG	77	41.463	28.988	22.782	0.0327	1.200	H
ATOM	1866	HB3	ARG	77	41.149	27.627	21.712	0.0327	1.200	H
ATOM	1867	CG	ARG	77	39.827	27.785	23.355	0.0390	1.700	C
ATOM	1868	HG2	ARG	77	39.524	26.739	23.314	0.0285	1.200	H
ATOM	1869	HG3	ARG	77	39.835	28.110	24.393	0.0285	1.200	H

ATOM	1870	CD	ARG	77	38.816	28.578	22.594	0.0486	1.700	C
ATOM	1871	HD2	ARG	77	39.016	29.641	22.744	0.0687	1.200	H
ATOM	1872	HD3	ARG	77	38.895	28.341	21.532	0.0687	1.200	H
ATOM	1873	NE	ARG	77	37.467	28.251	23.047	-0.5295	1.550	N
ATOM	1874	HE	ARG	77	37.358	27.426	23.620	0.3456	1.300	H
ATOM	1875	CZ	ARG	77	36.381	28.928	22.702	0.8076	1.700	C
ATOM	1876	NH1	ARG	77	36.492	29.976	21.903	-0.8627	1.550	N
ATOM	1877	HH11	ARG	77	37.403	30.245	21.563	0.4478	1.300	H
ATOM	1878	HH12	ARG	77	35.671	30.481	21.612	0.4478	1.300	H
ATOM	1879	NH2	ARG	77	35.188	28.532	23.119	-0.8627	1.550	N
ATOM	1880	HH21	ARG	77	34.356	28.989	22.782	0.4478	1.300	H
ATOM	1881	HH22	ARG	77	35.127	27.714	23.708	0.4478	1.300	H
ATOM	1882	C	ARG	77	42.460	27.598	24.877	0.7341	1.700	C
ATOM	1883	O	ARG	77	42.000	26.977	25.842	-0.5894	1.500	O
ATOM	1884	N	PRO	78	43.234	28.682	25.026	-0.2548	1.550	N
ATOM	1885	CD	PRO	78	44.050	29.320	23.974	0.0192	1.700	C
ATOM	1886	HD2	PRO	78	43.508	29.482	23.045	0.0391	1.200	H
ATOM	1887	HD3	PRO	78	44.951	28.730	23.795	0.0391	1.200	H
ATOM	1888	CG	PRO	78	44.404	30.631	24.587	0.0189	1.700	C
ATOM	1889	HG2	PRO	78	43.567	31.327	24.510	0.0213	1.200	H
ATOM	1890	HG3	PRO	78	45.299	31.056	24.132	0.0213	1.200	H
ATOM	1891	CB	PRO	78	44.641	30.241	26.035	-0.0070	1.700	C
ATOM	1892	HB2	PRO	78	44.622	31.112	26.693	0.0253	1.200	H
ATOM	1893	HB3	PRO	78	45.602	29.730	26.124	0.0253	1.200	H
ATOM	1894	CA	PRO	78	43.512	29.263	26.338	-0.0266	1.700	C
ATOM	1895	HA	PRO	78	43.873	28.494	27.024	0.0641	1.200	H
ATOM	1896	C	PRO	78	42.331	29.996	26.957	0.5896	1.700	C
ATOM	1897	O	PRO	78	41.554	30.657	26.257	-0.5748	1.500	O
ATOM	1898	N	MET	79	42.200	29.868	28.272	-0.4157	1.550	N
ATOM	1899	H	MET	79	42.868	29.319	28.793	0.2719	1.300	H
ATOM	1900	CA	MET	79	41.157	30.560	29.009	-0.0237	1.700	C
ATOM	1901	HA	MET	79	40.175	30.319	28.605	0.0880	1.200	H
ATOM	1902	CB	MET	79	41.254	30.202	30.495	0.0342	1.700	C
ATOM	1903	HB2	MET	79	41.104	29.126	30.587	0.0241	1.200	H
ATOM	1904	HB3	MET	79	42.257	30.427	30.862	0.0241	1.200	H
ATOM	1905	CG	MET	79	40.246	30.884	31.408	0.0018	1.700	C
ATOM	1906	HG2	MET	79	40.253	30.408	32.388	0.0440	1.200	H
ATOM	1907	HG3	MET	79	40.556	31.922	31.536	0.0440	1.200	H
ATOM	1908	SD	MET	79	38.582	30.890	30.752	-0.2737	1.800	S
ATOM	1909	CE	MET	79	37.835	29.417	31.348	-0.0536	1.700	C
ATOM	1910	HE1	MET	79	37.026	29.126	30.688	0.0684	1.200	H
ATOM	1911	HE2	MET	79	38.576	28.622	31.328	0.0684	1.200	H
ATOM	1912	HE3	MET	79	37.473	29.570	32.364	0.0684	1.200	H
ATOM	1913	C	MET	79	41.479	32.038	28.819	0.5973	1.700	C
ATOM	1914	O	MET	79	42.636	32.396	28.569	-0.5679	1.500	O
ATOM	1915	N	THR	80	40.462	32.892	28.855	-0.4157	1.550	N
ATOM	1916	H	THR	80	39.530	32.564	29.062	0.2719	1.300	H
ATOM	1917	CA	THR	80	40.694	34.320	28.724	-0.0389	1.700	C
ATOM	1918	HA	THR	80	41.739	34.561	28.922	0.1007	1.200	H
ATOM	1919	CB	THR	80	40.346	34.829	27.343	0.3654	1.700	C
ATOM	1920	HB	THR	80	40.593	35.888	27.269	0.0043	1.200	H
ATOM	1921	CG2	THR	80	41.112	34.070	26.291	-0.2438	1.700	C
ATOM	1922	HG21	THR	80	40.980	34.566	25.329	0.0642	1.200	H
ATOM	1923	HG22	THR	80	42.177	34.063	26.526	0.0642	1.200	H
ATOM	1924	HG23	THR	80	40.741	33.051	26.200	0.0642	1.200	H
ATOM	1925	OG1	THR	80	38.950	34.649	27.118	-0.6761	1.500	O
ATOM	1926	HG1	THR	80	38.796	33.713	26.963	0.4102	1.200	H
ATOM	1927	C	THR	80	39.859	35.078	29.741	0.5973	1.700	C
ATOM	1928	O	THR	80	38.999	34.502	30.429	-0.5679	1.500	O
ATOM	1929	N	TYR	81	40.130	36.375	29.838	-0.4157	1.550	N
ATOM	1930	H	TYR	81	40.867	36.776	29.278	0.2719	1.300	H
ATOM	1931	CA	TYR	81	39.413	37.257	30.734	-0.0014	1.700	C
ATOM	1932	HA	TYR	81	39.453	36.883	31.758	0.0876	1.200	H
ATOM	1933	CB	TYR	81	40.015	38.659	30.657	-0.0152	1.700	C
ATOM	1934	HB2	TYR	81	41.022	38.636	31.076	0.0295	1.200	H
ATOM	1935	HB3	TYR	81	40.096	38.973	29.615	0.0295	1.200	H
ATOM	1936	CG	TYR	81	39.191	39.657	31.401	-0.0011	1.700	C
ATOM	1937	CD1	TYR	81	38.102	40.278	30.796	-0.1906	1.700	C
ATOM	1938	HD1	TYR	81	37.896	40.114	29.749	0.1699	1.200	H
ATOM	1939	CE1	TYR	81	37.239	41.071	31.520	-0.2341	1.700	C
ATOM	1940	HE1	TYR	81	36.386	41.531	31.042	0.1656	1.200	H
ATOM	1941	CZ	TYR	81	37.471	41.261	32.856	0.3226	1.700	C
ATOM	1942	OH	TYR	81	36.583	41.986	33.619	-0.5579	1.500	O
ATOM	1943	HH	TYR	81	36.865	42.098	34.533	0.3992	1.200	H
ATOM	1944	CE2	TYR	81	38.559	40.672	33.468	-0.2341	1.700	C
ATOM	1945	HE2	TYR	81	38.730	40.816	34.525	0.1656	1.200	H
ATOM	1946	CD2	TYR	81	39.406	39.879	32.742	-0.1906	1.700	C

ATOM	1947	HD2	TYR	81	40.246	39.417	33.235	0.1699	1.200	H
ATOM	1948	C	TYR	81	37.963	37.301	30.247	0.5973	1.700	C
ATOM	1949	O	TYR	81	37.027	37.120	31.007	-0.5679	1.500	O
ATOM	1950	N	LYS	82	37.793	37.502	28.951	-0.3479	1.550	N
ATOM	1951	H	LYS	82	38.597	37.627	28.355	0.2747	1.300	H
ATOM	1952	CA	LYS	82	36.474	37.595	28.365	-0.2400	1.700	C
ATOM	1953	HA	LYS	82	35.893	38.323	28.935	0.1426	1.200	H
ATOM	1954	CB	LYS	82	36.578	38.085	26.925	-0.0094	1.700	C
ATOM	1955	HB2	LYS	82	37.070	39.059	26.912	0.0362	1.200	H
ATOM	1956	HB3	LYS	82	37.167	37.378	26.337	0.0362	1.200	H
ATOM	1957	CG	LYS	82	35.180	38.212	26.329	0.0187	1.700	C
ATOM	1958	HG2	LYS	82	34.676	37.246	26.306	0.0103	1.200	H
ATOM	1959	HG3	LYS	82	34.590	38.918	26.917	0.0103	1.200	H
ATOM	1960	CD	LYS	82	35.284	38.702	24.889	-0.0479	1.700	C
ATOM	1961	HD2	LYS	82	35.777	39.676	24.870	0.0621	1.200	H
ATOM	1962	HD3	LYS	82	35.866	37.989	24.302	0.0621	1.200	H
ATOM	1963	CE	LYS	82	33.886	38.829	24.293	-0.0143	1.700	C
ATOM	1964	HE2	LYS	82	33.391	37.856	24.320	0.1135	1.200	H
ATOM	1965	HE3	LYS	82	33.303	39.536	24.886	0.1135	1.200	H
ATOM	1966	NZ	LYS	82	33.986	39.302	22.904	-0.3854	1.550	N
ATOM	1967	HZ1	LYS	82	33.059	39.365	22.507	0.3400	1.300	H
ATOM	1968	HZ2	LYS	82	34.421	40.214	22.884	0.3400	1.300	H
ATOM	1969	HZ3	LYS	82	34.540	38.655	22.362	0.3400	1.300	H
ATOM	1970	C	LYS	82	35.754	36.272	28.431	0.7341	1.700	C
ATOM	1971	O	LYS	82	34.549	36.241	28.642	-0.5894	1.500	O
ATOM	1972	N	ALA	83	36.483	35.173	28.253	-0.4157	1.550	N
ATOM	1973	H	ALA	83	37.477	35.250	28.112	0.2719	1.300	H
ATOM	1974	CA	ALA	83	35.893	33.844	28.312	0.0337	1.700	C
ATOM	1975	HA	ALA	83	35.007	33.810	27.676	0.0823	1.200	H
ATOM	1976	CB	ALA	83	36.864	32.841	27.837	-0.1825	1.700	C
ATOM	1977	HB1	ALA	83	36.414	31.852	27.936	0.0603	1.200	H
ATOM	1978	HB2	ALA	83	37.093	33.007	26.786	0.0603	1.200	H
ATOM	1979	HB3	ALA	83	37.764	32.853	28.446	0.0603	1.200	H
ATOM	1980	C	ALA	83	35.487	33.540	29.744	0.5973	1.700	C
ATOM	1981	O	ALA	83	34.425	32.959	29.992	-0.5679	1.500	O
ATOM	1982	N	ALA	84	36.309	33.963	30.699	-0.4157	1.550	N
ATOM	1983	H	ALA	84	37.151	34.466	30.465	0.2719	1.300	H
ATOM	1984	CA	ALA	84	36.002	33.731	32.107	0.0337	1.700	C
ATOM	1985	HA	ALA	84	35.773	32.672	32.241	0.0823	1.200	H
ATOM	1986	CB	ALA	84	37.215	34.058	32.975	-0.1825	1.700	C
ATOM	1987	HB1	ALA	84	36.988	33.814	34.007	0.0603	1.200	H
ATOM	1988	HB2	ALA	84	38.066	33.451	32.665	0.0603	1.200	H
ATOM	1989	HB3	ALA	84	37.472	35.114	32.890	0.0603	1.200	H
ATOM	1990	C	ALA	84	34.772	34.548	32.554	0.5973	1.700	C
ATOM	1991	O	ALA	84	33.959	34.077	33.367	-0.5679	1.500	O
ATOM	1992	N	VAL	85	34.645	35.776	32.043	-0.4157	1.550	N
ATOM	1993	H	VAL	85	35.342	36.135	31.407	0.2719	1.300	H
ATOM	1994	CA	VAL	85	33.496	36.633	32.379	-0.0875	1.700	C
ATOM	1995	HA	VAL	85	33.388	36.646	33.465	0.0969	1.200	H
ATOM	1996	CB	VAL	85	33.700	38.106	31.906	0.2985	1.700	C
ATOM	1997	HB	VAL	85	34.113	38.110	30.896	-0.0297	1.200	H
ATOM	1998	CG1	VAL	85	32.379	38.843	31.882	-0.3192	1.700	C
ATOM	1999	HG11	VAL	85	32.554	39.898	31.667	0.0791	1.200	H
ATOM	2000	HG12	VAL	85	31.724	38.462	31.097	0.0791	1.200	H
ATOM	2001	HG13	VAL	85	31.898	38.763	32.853	0.0791	1.200	H
ATOM	2002	CG2	VAL	85	34.660	38.815	32.833	-0.3192	1.700	C
ATOM	2003	HG21	VAL	85	34.805	39.842	32.500	0.0791	1.200	H
ATOM	2004	HG22	VAL	85	34.264	38.824	33.849	0.0791	1.200	H
ATOM	2005	HG23	VAL	85	35.626	38.313	32.834	0.0791	1.200	H
ATOM	2006	C	VAL	85	32.182	36.060	31.810	0.5973	1.700	C
ATOM	2007	O	VAL	85	31.170	36.028	32.513	-0.5679	1.500	O
ATOM	2008	N	ASP	86	32.202	35.588	30.563	-0.5163	1.550	N
ATOM	2009	H	ASP	86	33.034	35.672	29.996	0.2936	1.300	H
ATOM	2010	CA	ASP	86	31.005	35.020	29.963	0.0381	1.700	C
ATOM	2011	HA	ASP	86	30.181	35.725	30.095	0.0880	1.200	H
ATOM	2012	CB	ASP	86	31.190	34.797	28.476	-0.0303	1.700	C
ATOM	2013	HB2	ASP	86	32.026	34.114	28.311	-0.0122	1.200	H
ATOM	2014	HB3	ASP	86	30.286	34.340	28.071	-0.0122	1.200	H
ATOM	2015	CG	ASP	86	31.457	36.093	27.723	0.7994	1.700	C
ATOM	2016	OD1	ASP	86	31.521	37.148	28.364	-0.8014	1.500	O
ATOM	2017	OD2	ASP	86	31.644	36.081	26.491	-0.8014	1.500	O
ATOM	2018	C	ASP	86	30.628	33.729	30.661	0.5366	1.700	C
ATOM	2019	O	ASP	86	29.497	33.571	31.089	-0.5819	1.500	O
ATOM	2020	N	LEU	87	31.598	32.844	30.864	-0.4157	1.550	N
ATOM	2021	H	LEU	87	32.532	33.038	30.533	0.2719	1.300	H
ATOM	2022	CA	LEU	87	31.349	31.572	31.544	-0.0518	1.700	C
ATOM	2023	HA	LEU	87	30.624	31.011	30.956	0.0922	1.200	H

ATOM	2024	CB	LEU	87	32.642	30.747	31.678	-0.1102	1.700	C
ATOM	2025	HB2	LEU	87	33.436	31.415	32.019	0.0457	1.200	H
ATOM	2026	HB3	LEU	87	32.495	30.008	32.468	0.0457	1.200	H
ATOM	2027	CG	LEU	87	33.117	29.993	30.433	0.3531	1.700	C
ATOM	2028	HG	LEU	87	33.150	30.677	29.585	-0.0361	1.200	H
ATOM	2029	CD1	LEU	87	34.516	29.458	30.661	-0.4121	1.700	C
ATOM	2030	HD11	LEU	87	34.559	28.892	31.588	0.1000	1.200	H
ATOM	2031	HD12	LEU	87	34.820	28.831	29.824	0.1000	1.200	H
ATOM	2032	HD13	LEU	87	35.195	30.307	30.733	0.1000	1.200	H
ATOM	2033	CD2	LEU	87	32.137	28.865	30.092	-0.4121	1.700	C
ATOM	2034	HD21	LEU	87	31.171	29.272	29.797	0.1000	1.200	H
ATOM	2035	HD22	LEU	87	32.525	28.284	29.257	0.1000	1.200	H
ATOM	2036	HD23	LEU	87	32.006	28.205	30.951	0.1000	1.200	H
ATOM	2037	C	LEU	87	30.750	31.775	32.914	0.5973	1.700	C
ATOM	2038	O	LEU	87	29.853	31.032	33.300	-0.5679	1.500	O
ATOM	2039	N	SER	88	31.248	32.765	33.658	-0.4157	1.550	N
ATOM	2040	H	SER	88	31.985	33.349	33.289	0.2719	1.300	H
ATOM	2041	CA	SER	88	30.743	33.034	35.007	-0.0249	1.700	C
ATOM	2042	HA	SER	88	30.823	32.119	35.593	0.0843	1.200	H
ATOM	2043	CB	SER	88	31.549	34.129	35.701	0.2117	1.700	C
ATOM	2044	HB2	SER	88	31.427	35.074	35.170	0.0352	1.200	H
ATOM	2045	HB3	SER	88	31.170	34.242	36.715	0.0352	1.200	H
ATOM	2046	OG	SER	88	32.926	33.823	35.772	-0.6546	1.500	O
ATOM	2047	HG	SER	88	33.297	33.885	34.882	0.4275	1.200	H
ATOM	2048	C	SER	88	29.293	33.464	34.955	0.5973	1.700	C
ATOM	2049	O	SER	88	28.465	32.950	35.703	-0.5679	1.500	O
ATOM	2050	N	HIS	89	28.978	34.391	34.051	-0.4157	1.550	N
ATOM	2051	H	HIS	89	29.684	34.758	33.426	0.2719	1.300	H
ATOM	2052	CA	HIS	89	27.610	34.888	33.935	0.0188	1.700	C
ATOM	2053	HA	HIS	89	27.273	35.162	34.936	0.0881	1.200	H
ATOM	2054	CB	HIS	89	27.538	36.161	33.080	-0.0462	1.700	C
ATOM	2055	HB2	HIS	89	28.073	36.005	32.142	0.0402	1.200	H
ATOM	2056	HB3	HIS	89	26.493	36.364	32.841	0.0402	1.200	H
ATOM	2057	CG	HIS	89	28.084	37.361	33.788	-0.0266	1.700	C
ATOM	2058	ND1	HIS	89	29.338	37.871	33.531	-0.3811	1.550	N
ATOM	2059	HD1	HIS	89	29.978	37.521	32.832	0.3649	1.300	H
ATOM	2060	CE1	HIS	89	29.622	38.813	34.411	0.2057	1.700	C
ATOM	2061	HE1	HIS	89	30.550	39.361	34.486	0.1392	1.200	H
ATOM	2062	NE2	HIS	89	28.591	38.943	35.223	-0.5727	1.550	N
ATOM	2063	CD2	HIS	89	27.613	38.053	34.852	0.1292	1.700	C
ATOM	2064	HD2	HIS	89	26.676	37.882	35.361	0.1147	1.200	H
ATOM	2065	C	HIS	89	26.683	33.816	33.453	0.5973	1.700	C
ATOM	2066	O	HIS	89	25.577	33.711	33.959	-0.5679	1.500	O
ATOM	2067	N	PHE	90	27.170	32.970	32.549	-0.4157	1.550	N
ATOM	2068	H	PHE	90	28.102	33.117	32.193	0.2719	1.300	H
ATOM	2069	CA	PHE	90	26.411	31.858	32.012	-0.0024	1.700	C
ATOM	2070	HA	PHE	90	25.502	32.228	31.536	0.0978	1.200	H
ATOM	2071	CB	PHE	90	27.259	31.127	30.968	-0.0343	1.700	C
ATOM	2072	HB2	PHE	90	27.249	31.706	30.044	0.0295	1.200	H
ATOM	2073	HB3	PHE	90	28.293	31.084	31.302	0.0295	1.200	H
ATOM	2074	CG	PHE	90	26.816	29.711	30.684	0.0118	1.700	C
ATOM	2075	CD1	PHE	90	27.235	28.659	31.493	-0.1256	1.700	C
ATOM	2076	HD1	PHE	90	27.959	28.850	32.263	0.1330	1.200	H
ATOM	2077	CE1	PHE	90	26.820	27.365	31.250	-0.1704	1.700	C
ATOM	2078	HE1	PHE	90	27.172	26.545	31.855	0.1430	1.200	H
ATOM	2079	CZ	PHE	90	25.978	27.102	30.182	-0.1072	1.700	C
ATOM	2080	HZ	PHE	90	25.659	26.090	29.979	0.1297	1.200	H
ATOM	2081	CE2	PHE	90	25.560	28.133	29.366	-0.1704	1.700	C
ATOM	2082	HE2	PHE	90	24.896	27.934	28.538	0.1430	1.200	H
ATOM	2083	CD2	PHE	90	25.979	29.432	29.620	-0.1256	1.700	C
ATOM	2084	HD2	PHE	90	25.641	30.233	28.978	0.1330	1.200	H
ATOM	2085	C	PHE	90	26.026	30.905	33.141	0.5973	1.700	C
ATOM	2086	O	PHE	90	24.858	30.563	33.307	-0.5679	1.500	O
ATOM	2087	N	LEU	91	27.014	30.462	33.907	-0.4157	1.550	N
ATOM	2088	H	LEU	91	27.960	30.773	33.736	0.2719	1.300	H
ATOM	2089	CA	LEU	91	26.769	29.532	35.006	-0.0518	1.700	C
ATOM	2090	HA	LEU	91	26.249	28.657	34.619	0.0922	1.200	H
ATOM	2091	CB	LEU	91	28.089	29.100	35.674	-0.1102	1.700	C
ATOM	2092	HB2	LEU	91	28.517	29.992	36.137	0.0457	1.200	H
ATOM	2093	HB3	LEU	91	27.825	28.424	36.490	0.0457	1.200	H
ATOM	2094	CG	LEU	91	29.205	28.441	34.869	0.3531	1.700	C
ATOM	2095	HG	LEU	91	29.575	29.041	34.082	-0.0361	1.200	H
ATOM	2096	CD1	LEU	91	30.349	28.100	35.797	-0.4121	1.700	C
ATOM	2097	HD11	LEU	91	31.196	27.758	35.202	0.1000	1.200	H
ATOM	2098	HD12	LEU	91	30.632	28.980	36.375	0.1000	1.200	H
ATOM	2099	HD13	LEU	91	30.027	27.295	36.450	0.1000	1.200	H
ATOM	2100	CD2	LEU	91	28.678	27.201	34.197	-0.4121	1.700	C

ATOM	2101	HD21	LEU	91	29.373	26.883	33.420	0.1000	1.200	H
ATOM	2102	HD22	LEU	91	28.576	26.396	34.925	0.1000	1.200	H
ATOM	2103	HD23	LEU	91	27.697	27.361	33.776	0.1000	1.200	H
ATOM	2104	C	LEU	91	25.876	30.182	36.049	0.5973	1.700	C
ATOM	2105	O	LEU	91	25.038	29.521	36.677	-0.5679	1.500	O
ATOM	2106	N	LYS	92	26.093	31.469	36.278	-0.3479	1.550	N
ATOM	2107	H	LYS	92	26.800	31.975	35.763	0.2747	1.300	H
ATOM	2108	CA	LYS	92	25.290	32.167	37.250	-0.2400	1.700	C
ATOM	2109	HA	LYS	92	25.380	31.662	38.213	0.1426	1.200	H
ATOM	2110	CB	LYS	92	25.731	33.612	37.399	-0.0094	1.700	C
ATOM	2111	HB2	LYS	92	26.812	33.649	37.526	0.0362	1.200	H
ATOM	2112	HB3	LYS	92	25.467	34.178	36.506	0.0362	1.200	H
ATOM	2113	CG	LYS	92	25.106	34.250	38.613	0.0187	1.700	C
ATOM	2114	HG2	LYS	92	24.030	34.071	38.596	0.0103	1.200	H
ATOM	2115	HG3	LYS	92	25.525	33.767	39.497	0.0103	1.200	H
ATOM	2116	CD	LYS	92	25.323	35.739	38.676	-0.0479	1.700	C
ATOM	2117	HD2	LYS	92	26.368	35.946	38.854	0.0621	1.200	H
ATOM	2118	HD3	LYS	92	25.023	36.202	37.735	0.0621	1.200	H
ATOM	2119	CE	LYS	92	24.489	36.327	39.797	-0.0143	1.700	C
ATOM	2120	HE2	LYS	92	24.735	37.386	39.885	0.1135	1.200	H
ATOM	2121	HE3	LYS	92	23.427	36.229	39.564	0.1135	1.200	H
ATOM	2122	NZ	LYS	92	24.790	35.641	41.095	-0.3854	1.550	N
ATOM	2123	HZ1	LYS	92	25.789	35.523	41.193	0.3400	1.300	H
ATOM	2124	HZ2	LYS	92	24.437	36.186	41.867	0.3400	1.300	H
ATOM	2125	HZ3	LYS	92	24.355	34.729	41.109	0.3400	1.300	H
ATOM	2126	C	LYS	92	23.849	32.097	36.780	0.7341	1.700	C
ATOM	2127	O	LYS	92	22.959	31.789	37.568	-0.5894	1.500	O
ATOM	2128	N	GLU	93	23.634	32.342	35.488	-0.5163	1.550	N
ATOM	2129	H	GLU	93	24.411	32.569	34.884	0.2936	1.300	H
ATOM	2130	CA	GLU	93	22.303	32.289	34.896	0.0397	1.700	C
ATOM	2131	HA	GLU	93	21.658	33.037	35.359	0.1105	1.200	H
ATOM	2132	CB	GLU	93	22.357	32.526	33.379	0.0560	1.700	C
ATOM	2133	HB2	GLU	93	22.982	31.796	32.892	-0.0173	1.200	H
ATOM	2134	HB3	GLU	93	21.354	32.360	32.982	-0.0173	1.200	H
ATOM	2135	CG	GLU	93	22.787	33.939	32.945	0.0136	1.700	C
ATOM	2136	HG2	GLU	93	21.886	34.554	32.964	-0.0425	1.200	H
ATOM	2137	HG3	GLU	93	23.436	34.417	33.666	-0.0425	1.200	H
ATOM	2138	CD	GLU	93	23.346	34.014	31.502	0.8054	1.700	C
ATOM	2139	OE1	GLU	93	23.018	33.148	30.651	-0.8188	1.500	O
ATOM	2140	OE2	GLU	93	24.128	34.953	31.224	-0.8188	1.500	O
ATOM	2141	C	GLU	93	21.750	30.902	35.165	0.5366	1.700	C
ATOM	2142	O	GLU	93	20.667	30.775	35.716	-0.5819	1.500	O
ATOM	2143	N	LYS	94	22.543	29.874	34.852	-0.3479	1.550	N
ATOM	2144	H	LYS	94	23.439	30.063	34.427	0.2747	1.300	H
ATOM	2145	CA	LYS	94	22.161	28.466	35.035	-0.2400	1.700	C
ATOM	2146	HA	LYS	94	21.272	28.286	34.429	0.1426	1.200	H
ATOM	2147	CB	LYS	94	23.284	27.552	34.531	-0.0094	1.700	C
ATOM	2148	HB2	LYS	94	23.502	27.791	33.488	0.0362	1.200	H
ATOM	2149	HB3	LYS	94	24.183	27.700	35.126	0.0362	1.200	H
ATOM	2150	CG	LYS	94	22.843	26.096	34.642	0.0187	1.700	C
ATOM	2151	HG2	LYS	94	22.718	25.789	35.674	0.0103	1.200	H
ATOM	2152	HG3	LYS	94	21.928	25.925	34.072	0.0103	1.200	H
ATOM	2153	CD	LYS	94	23.960	25.187	34.141	-0.0479	1.700	C
ATOM	2154	HD2	LYS	94	24.178	25.422	33.098	0.0621	1.200	H
ATOM	2155	HD3	LYS	94	24.858	25.345	34.741	0.0621	1.200	H
ATOM	2156	CE	LYS	94	23.519	23.732	34.252	-0.0143	1.700	C
ATOM	2157	HE2	LYS	94	23.315	23.509	35.301	0.1135	1.200	H
ATOM	2158	HE3	LYS	94	22.610	23.570	33.669	0.1135	1.200	H
ATOM	2159	NZ	LYS	94	24.596	22.855	33.768	-0.3854	1.550	N
ATOM	2160	HZ1	LYS	94	24.669	22.929	32.764	0.3400	1.300	H
ATOM	2161	HZ2	LYS	94	25.472	23.131	34.188	0.3400	1.300	H
ATOM	2162	HZ3	LYS	94	24.386	21.900	34.015	0.3400	1.300	H
ATOM	2163	C	LYS	94	21.813	28.113	36.477	0.7341	1.700	C
ATOM	2164	O	LYS	94	21.205	27.086	36.746	-0.5894	1.500	O
ATOM	2165	N	GLY	95	22.225	28.964	37.403	-0.4157	1.550	N
ATOM	2166	H	GLY	95	22.722	29.802	37.136	0.2719	1.300	H
ATOM	2167	CA	GLY	95	21.936	28.731	38.804	-0.0252	1.700	C
ATOM	2168	HA2	GLY	95	22.345	29.560	39.381	0.0698	1.200	H
ATOM	2169	HA3	GLY	95	20.855	28.710	38.949	0.0698	1.200	H
ATOM	2170	C	GLY	95	22.537	27.442	39.319	0.5973	1.700	C
ATOM	2171	O	GLY	95	21.837	26.611	39.895	-0.5679	1.500	O
ATOM	2172	N	GLY	96	23.840	27.273	39.130	-0.4157	1.550	N
ATOM	2173	H	GLY	96	24.383	27.971	38.642	0.2719	1.300	H
ATOM	2174	CA	GLY	96	24.482	26.057	39.596	-0.0252	1.700	C
ATOM	2175	HA2	GLY	96	23.753	25.286	39.847	0.0698	1.200	H
ATOM	2176	HA3	GLY	96	25.053	25.660	38.757	0.0698	1.200	H
ATOM	2177	C	GLY	96	25.435	26.198	40.770	0.5973	1.700	C

ATOM	2178	O	GLY	96	25.072	25.909	41.908	-0.5679	1.500	O
ATOM	2179	N	LEU	97	26.651	26.662	40.484	-0.4157	1.550	N
ATOM	2180	H	LEU	97	26.872	26.904	39.530	0.2719	1.300	H
ATOM	2181	CA	LEU	97	27.703	26.814	41.483	-0.0518	1.700	C
ATOM	2182	HA	LEU	97	27.991	25.815	41.812	0.0922	1.200	H
ATOM	2183	CB	LEU	97	28.904	27.493	40.861	-0.1102	1.700	C
ATOM	2184	HB2	LEU	97	28.622	28.520	40.638	0.0457	1.200	H
ATOM	2185	HB3	LEU	97	29.705	27.517	41.597	0.0457	1.200	H
ATOM	2186	CG	LEU	97	29.437	26.877	39.592	0.3531	1.700	C
ATOM	2187	HG	LEU	97	28.682	26.907	38.804	-0.0361	1.200	H
ATOM	2188	CD1	LEU	97	30.633	27.674	39.137	-0.4121	1.700	C
ATOM	2189	HD11	LEU	97	31.055	27.260	38.242	0.1000	1.200	H
ATOM	2190	HD12	LEU	97	30.335	28.700	38.927	0.1000	1.200	H
ATOM	2191	HD13	LEU	97	31.401	27.680	39.912	0.1000	1.200	H
ATOM	2192	CD2	LEU	97	29.812	25.439	39.875	-0.4121	1.700	C
ATOM	2193	HD21	LEU	97	30.263	25.005	38.986	0.1000	1.200	H
ATOM	2194	HD22	LEU	97	30.525	25.384	40.698	0.1000	1.200	H
ATOM	2195	HD23	LEU	97	28.932	24.843	40.112	0.1000	1.200	H
ATOM	2196	C	LEU	97	27.367	27.588	42.739	0.5973	1.700	C
ATOM	2197	O	LEU	97	27.960	27.340	43.786	-0.5679	1.500	O
ATOM	2198	N	GLU	98	26.446	28.541	42.638	-0.5163	1.550	N
ATOM	2199	H	GLU	98	25.944	28.681	41.775	0.2936	1.300	H
ATOM	2200	CA	GLU	98	26.123	29.380	43.781	0.0397	1.700	C
ATOM	2201	HA	GLU	98	27.011	29.984	43.978	0.1105	1.200	H
ATOM	2202	CB	GLU	98	24.964	30.326	43.470	0.0560	1.700	C
ATOM	2203	HB2	GLU	98	25.065	30.688	42.445	-0.0173	1.200	H
ATOM	2204	HB3	GLU	98	24.019	29.784	43.531	-0.0173	1.200	H
ATOM	2205	CG	GLU	98	24.910	31.539	44.399	0.0136	1.700	C
ATOM	2206	HG2	GLU	98	24.024	32.125	44.150	-0.0425	1.200	H
ATOM	2207	HG3	GLU	98	24.808	31.202	45.432	-0.0425	1.200	H
ATOM	2208	CD	GLU	98	26.131	32.433	44.265	0.8054	1.700	C
ATOM	2209	OE1	GLU	98	26.404	32.888	43.135	-0.8188	1.500	O
ATOM	2210	OE2	GLU	98	26.817	32.682	45.279	-0.8188	1.500	O
ATOM	2211	C	GLU	98	25.810	28.573	45.006	0.5366	1.700	C
ATOM	2212	O	GLU	98	24.974	27.679	44.972	-0.5819	1.500	O
ATOM	2213	N	GLY	99	26.531	28.851	46.076	-0.4157	1.550	N
ATOM	2214	H	GLY	99	27.260	29.550	46.052	0.2719	1.300	H
ATOM	2215	CA	GLY	99	26.298	28.133	47.307	-0.0252	1.700	C
ATOM	2216	HA2	GLY	99	26.793	28.696	48.089	0.0698	1.200	H
ATOM	2217	HA3	GLY	99	25.228	28.121	47.521	0.0698	1.200	H
ATOM	2218	C	GLY	99	26.811	26.705	47.324	0.5973	1.700	C
ATOM	2219	O	GLY	99	27.228	26.225	48.381	-0.5679	1.500	O
ATOM	2220	N	LEU	100	26.808	26.027	46.178	-0.4157	1.550	N
ATOM	2221	H	LEU	100	26.486	26.475	45.332	0.2719	1.300	H
ATOM	2222	CA	LEU	100	27.272	24.638	46.106	-0.0518	1.700	C
ATOM	2223	HA	LEU	100	26.484	24.020	46.537	0.0922	1.200	H
ATOM	2224	CB	LEU	100	27.479	24.219	44.650	-0.1102	1.700	C
ATOM	2225	HB2	LEU	100	26.537	24.355	44.114	0.0457	1.200	H
ATOM	2226	HB3	LEU	100	28.206	24.901	44.214	0.0457	1.200	H
ATOM	2227	CG	LEU	100	28.002	22.802	44.402	0.3531	1.700	C
ATOM	2228	HG	LEU	100	28.956	22.659	44.903	-0.0361	1.200	H
ATOM	2229	CD1	LEU	100	27.006	21.801	44.914	-0.4121	1.700	C
ATOM	2230	HD11	LEU	100	27.323	20.795	44.652	0.1000	1.200	H
ATOM	2231	HD12	LEU	100	26.922	21.860	45.998	0.1000	1.200	H
ATOM	2232	HD13	LEU	100	26.027	21.981	44.468	0.1000	1.200	H
ATOM	2233	CD2	LEU	100	28.219	22.592	42.923	-0.4121	1.700	C
ATOM	2234	HD21	LEU	100	28.602	21.588	42.740	0.1000	1.200	H
ATOM	2235	HD22	LEU	100	27.282	22.723	42.380	0.1000	1.200	H
ATOM	2236	HD23	LEU	100	28.945	23.315	42.551	0.1000	1.200	H
ATOM	2237	C	LEU	100	28.563	24.401	46.890	0.5973	1.700	C
ATOM	2238	O	LEU	100	29.510	25.201	46.808	-0.5679	1.500	O
ATOM	2239	N	ILE	101	28.580	23.345	47.697	-0.4157	1.550	N
ATOM	2240	H	ILE	101	27.765	22.759	47.799	0.2719	1.300	H
ATOM	2241	CA	ILE	101	29.778	23.030	48.461	-0.0597	1.700	C
ATOM	2242	HA	ILE	101	30.144	23.950	48.916	0.0869	1.200	H
ATOM	2243	CB	ILE	101	29.524	22.005	49.574	0.1303	1.700	C
ATOM	2244	HB	ILE	101	29.055	21.120	49.139	0.0187	1.200	H
ATOM	2245	CG2	ILE	101	30.862	21.591	50.208	-0.3204	1.700	C
ATOM	2246	HG21	ILE	101	30.669	21.005	51.107	0.0882	1.200	H
ATOM	2247	HG22	ILE	101	31.431	20.962	49.525	0.0882	1.200	H
ATOM	2248	HG23	ILE	101	31.462	22.459	50.477	0.0882	1.200	H
ATOM	2249	CG1	ILE	101	28.573	22.589	50.633	-0.0430	1.700	C
ATOM	2250	HG12	ILE	101	27.722	23.063	50.143	0.0236	1.200	H
ATOM	2251	HG13	ILE	101	28.175	21.771	51.235	0.0236	1.200	H
ATOM	2252	CD1	ILE	101	29.212	23.590	51.568	-0.0660	1.700	C
ATOM	2253	HD11	ILE	101	28.454	24.284	51.927	0.0186	1.200	H
ATOM	2254	HD12	ILE	101	29.593	23.052	52.427	0.0186	1.200	H

ATOM	2255	HD13	ILE	101	30.019	24.129	51.083	0.0186	1.200	H
ATOM	2256	C	ILE	101	30.833	22.502	47.496	0.5973	1.700	C
ATOM	2257	O	ILE	101	30.567	21.637	46.646	-0.5679	1.500	O
ATOM	2258	N	HIS	102	32.024	23.067	47.616	-0.4157	1.550	N
ATOM	2259	H	HIS	102	32.167	23.770	48.326	0.2719	1.300	H
ATOM	2260	CA	HIS	102	33.137	22.720	46.758	-0.0581	1.700	C
ATOM	2261	HA	HIS	102	32.769	22.717	45.732	0.1360	1.200	H
ATOM	2262	CB	HIS	102	34.209	23.789	46.851	-0.0074	1.700	C
ATOM	2263	HB2	HIS	102	33.755	24.762	46.659	0.0367	1.200	H
ATOM	2264	HB3	HIS	102	34.616	23.797	47.862	0.0367	1.200	H
ATOM	2265	CG	HIS	102	35.318	23.593	45.878	0.1868	1.700	C
ATOM	2266	ND1	HIS	102	36.582	23.204	46.257	-0.5432	1.550	N
ATOM	2267	CE1	HIS	102	37.341	23.077	45.184	0.1635	1.700	C
ATOM	2268	HE1	HIS	102	38.382	22.785	45.172	0.1435	1.200	H
ATOM	2269	NE2	HIS	102	36.611	23.369	44.124	-0.2795	1.550	N
ATOM	2270	HE2	HIS	102	36.926	23.326	43.169	0.3339	1.300	H
ATOM	2271	CD2	HIS	102	35.343	23.697	44.530	-0.2207	1.700	C
ATOM	2272	HD2	HIS	102	34.530	24.038	43.943	0.1862	1.200	H
ATOM	2273	C	HIS	102	33.784	21.380	47.037	0.5973	1.700	C
ATOM	2274	O	HIS	102	33.880	20.945	48.184	-0.5679	1.500	O
ATOM	2275	N	SER	103	34.283	20.766	45.971	-0.4157	1.550	N
ATOM	2276	H	SER	103	34.211	21.211	45.067	0.2719	1.300	H
ATOM	2277	CA	SER	103	34.981	19.488	46.040	-0.0249	1.700	C
ATOM	2278	HA	SER	103	35.631	19.477	46.916	0.0843	1.200	H
ATOM	2279	CB	SER	103	33.988	18.323	46.129	0.2117	1.700	C
ATOM	2280	HB2	SER	103	34.545	17.405	46.323	0.0352	1.200	H
ATOM	2281	HB3	SER	103	33.291	18.487	46.952	0.0352	1.200	H
ATOM	2282	OG	SER	103	33.269	18.166	44.921	-0.6546	1.500	O
ATOM	2283	HG	SER	103	33.650	18.767	44.274	0.4275	1.200	H
ATOM	2284	C	SER	103	35.824	19.366	44.772	0.5973	1.700	C
ATOM	2285	O	SER	103	35.408	19.812	43.698	-0.5679	1.500	O
ATOM	2286	N	GLN	104	37.020	18.802	44.910	-0.4157	1.550	N
ATOM	2287	H	GLN	104	37.332	18.486	45.816	0.2719	1.300	H
ATOM	2288	CA	GLN	104	37.915	18.620	43.783	-0.0031	1.700	C
ATOM	2289	HA	GLN	104	38.205	19.607	43.421	0.0850	1.200	H
ATOM	2290	CB	GLN	104	39.129	17.797	44.178	-0.0036	1.700	C
ATOM	2291	HB2	GLN	104	39.540	18.197	45.107	0.0171	1.200	H
ATOM	2292	HB3	GLN	104	38.840	16.762	44.368	0.0171	1.200	H
ATOM	2293	CG	GLN	104	40.201	17.826	43.135	-0.0645	1.700	C
ATOM	2294	HG2	GLN	104	41.075	17.284	43.498	0.0352	1.200	H
ATOM	2295	HG3	GLN	104	39.848	17.321	42.238	0.0352	1.200	H
ATOM	2296	CD	GLN	104	40.604	19.246	42.815	0.6951	1.700	C
ATOM	2297	OE1	GLN	104	40.781	20.066	43.720	-0.6086	1.500	O
ATOM	2298	NE2	GLN	104	40.734	19.557	41.533	-0.9407	1.550	N
ATOM	2299	HE21	GLN	104	40.505	18.879	40.816	0.4251	1.300	H
ATOM	2300	HE22	GLN	104	41.067	20.469	41.267	0.4251	1.300	H
ATOM	2301	C	GLN	104	37.175	17.889	42.696	0.5973	1.700	C
ATOM	2302	O	GLN	104	37.314	18.214	41.524	-0.5679	1.500	O
ATOM	2303	N	ARG	105	36.373	16.905	43.083	-0.3479	1.550	N
ATOM	2304	H	ARG	105	36.301	16.657	44.058	0.2747	1.300	H
ATOM	2305	CA	ARG	105	35.617	16.155	42.095	-0.2637	1.700	C
ATOM	2306	HA	ARG	105	36.329	15.799	41.347	0.1560	1.200	H
ATOM	2307	CB	ARG	105	34.952	14.925	42.725	-0.0007	1.700	C
ATOM	2308	HB2	ARG	105	35.731	14.219	43.020	0.0327	1.200	H
ATOM	2309	HB3	ARG	105	34.419	15.231	43.627	0.0327	1.200	H
ATOM	2310	CG	ARG	105	33.947	14.211	41.804	0.0390	1.700	C
ATOM	2311	HG2	ARG	105	33.590	13.307	42.300	0.0285	1.200	H
ATOM	2312	HG3	ARG	105	33.083	14.858	41.645	0.0285	1.200	H
ATOM	2313	CD	ARG	105	34.533	13.843	40.449	0.0486	1.700	C
ATOM	2314	HD2	ARG	105	33.729	13.552	39.780	0.0687	1.200	H
ATOM	2315	HD3	ARG	105	35.025	14.695	39.990	0.0687	1.200	H
ATOM	2316	NE	ARG	105	35.515	12.768	40.528	-0.5295	1.550	N
ATOM	2317	HE	ARG	105	36.475	13.016	40.732	0.3456	1.300	H
ATOM	2318	CZ	ARG	105	35.238	11.484	40.312	0.8076	1.700	C
ATOM	2319	NH1	ARG	105	34.000	11.106	40.003	-0.8627	1.550	N
ATOM	2320	HH11	ARG	105	33.798	10.135	39.821	0.4478	1.300	H
ATOM	2321	HH12	ARG	105	33.245	11.784	40.012	0.4478	1.300	H
ATOM	2322	NH2	ARG	105	36.208	10.579	40.376	-0.8627	1.550	N
ATOM	2323	HH21	ARG	105	37.154	10.869	40.602	0.4478	1.300	H
ATOM	2324	HH22	ARG	105	36.030	9.621	40.112	0.4478	1.300	H
ATOM	2325	C	ARG	105	34.595	17.028	41.366	0.7341	1.700	C
ATOM	2326	O	ARG	105	34.556	17.043	40.134	-0.5894	1.500	O
ATOM	2327	N	ARG	106	33.789	17.771	42.117	-0.3479	1.550	N
ATOM	2328	H	ARG	106	33.834	17.686	43.119	0.2747	1.300	H
ATOM	2329	CA	ARG	106	32.778	18.635	41.514	-0.2637	1.700	C
ATOM	2330	HA	ARG	106	32.072	18.032	40.940	0.1560	1.200	H
ATOM	2331	CB	ARG	106	32.036	19.406	42.583	-0.0007	1.700	C

ATOM	2332	HB2	ARG	106	32.736	19.846	43.291	0.0327	1.200	H
ATOM	2333	HB3	ARG	106	31.561	20.259	42.093	0.0327	1.200	H
ATOM	2334	CG	ARG	106	30.926	18.664	43.247	0.0390	1.700	C
ATOM	2335	HG2	ARG	106	30.099	18.559	42.542	0.0285	1.200	H
ATOM	2336	HG3	ARG	106	31.236	17.667	43.560	0.0285	1.200	H
ATOM	2337	CD	ARG	106	30.487	19.470	44.427	0.0486	1.700	C
ATOM	2338	HD2	ARG	106	31.301	19.538	45.145	0.0687	1.200	H
ATOM	2339	HD3	ARG	106	30.288	20.489	44.092	0.0687	1.200	H
ATOM	2340	NE	ARG	106	29.253	18.971	44.997	-0.5295	1.550	N
ATOM	2341	HE	ARG	106	28.451	18.893	44.388	0.3456	1.300	H
ATOM	2342	CZ	ARG	106	29.113	18.660	46.276	0.8076	1.700	C
ATOM	2343	NH1	ARG	106	30.142	18.787	47.107	-0.8627	1.550	N
ATOM	2344	HH11	ARG	106	31.006	19.190	46.779	0.4478	1.300	H
ATOM	2345	HH12	ARG	106	30.011	18.617	48.093	0.4478	1.300	H
ATOM	2346	NH2	ARG	106	27.925	18.286	46.739	-0.8627	1.550	N
ATOM	2347	HH21	ARG	106	27.808	18.077	47.719	0.4478	1.300	H
ATOM	2348	HH22	ARG	106	27.127	18.267	46.122	0.4478	1.300	H
ATOM	2349	C	ARG	106	33.427	19.630	40.573	0.7341	1.700	C
ATOM	2350	O	ARG	106	32.947	19.864	39.462	-0.5894	1.500	O
ATOM	2351	N	GLN	107	34.533	20.207	41.017	-0.4157	1.550	N
ATOM	2352	H	GLN	107	34.921	19.950	41.911	0.2719	1.300	H
ATOM	2353	CA	GLN	107	35.229	21.170	40.199	-0.0031	1.700	C
ATOM	2354	HA	GLN	107	34.501	21.908	39.859	0.0850	1.200	H
ATOM	2355	CB	GLN	107	36.297	21.899	40.994	-0.0036	1.700	C
ATOM	2356	HB2	GLN	107	35.873	22.187	41.953	0.0171	1.200	H
ATOM	2357	HB3	GLN	107	37.142	21.229	41.171	0.0171	1.200	H
ATOM	2358	CG	GLN	107	36.750	23.127	40.280	-0.0645	1.700	C
ATOM	2359	HG2	GLN	107	36.947	22.884	39.241	0.0352	1.200	H
ATOM	2360	HG3	GLN	107	36.010	23.887	40.250	0.0352	1.200	H
ATOM	2361	CD	GLN	107	38.008	23.674	40.846	0.6951	1.700	C
ATOM	2362	OE1	GLN	107	38.186	23.734	42.059	-0.6086	1.500	O
ATOM	2363	NE2	GLN	107	38.911	24.068	39.976	-0.9407	1.550	N
ATOM	2364	HE21	GLN	107	39.795	24.434	40.304	0.4251	1.300	H
ATOM	2365	HE22	GLN	107	38.708	24.065	38.992	0.4251	1.300	H
ATOM	2366	C	GLN	107	35.856	20.525	38.976	0.5973	1.700	C
ATOM	2367	O	GLN	107	35.852	21.122	37.899	-0.5679	1.500	O
ATOM	2368	N	ASP	108	36.418	19.328	39.131	-0.5163	1.550	N
ATOM	2369	H	ASP	108	36.452	18.876	40.032	0.2936	1.300	H
ATOM	2370	CA	ASP	108	37.033	18.658	37.993	0.0381	1.700	C
ATOM	2371	HA	ASP	108	37.770	19.312	37.523	0.0880	1.200	H
ATOM	2372	CB	ASP	108	37.690	17.345	38.397	-0.0303	1.700	C
ATOM	2373	HB2	ASP	108	36.971	16.731	38.940	-0.0122	1.200	H
ATOM	2374	HB3	ASP	108	37.991	16.810	37.495	-0.0122	1.200	H
ATOM	2375	CG	ASP	108	38.913	17.548	39.255	0.7994	1.700	C
ATOM	2376	OD1	ASP	108	39.359	18.710	39.368	-0.8014	1.500	O
ATOM	2377	OD2	ASP	108	39.425	16.553	39.821	-0.8014	1.500	O
ATOM	2378	C	ASP	108	35.926	18.391	37.020	0.5366	1.700	C
ATOM	2379	O	ASP	108	36.111	18.522	35.814	-0.5819	1.500	O
ATOM	2380	N	ILE	109	34.761	18.046	37.548	-0.4157	1.550	N
ATOM	2381	H	ILE	109	34.661	17.971	38.548	0.2719	1.300	H
ATOM	2382	CA	ILE	109	33.617	17.793	36.701	-0.0597	1.700	C
ATOM	2383	HA	ILE	109	33.881	17.016	35.981	0.0869	1.200	H
ATOM	2384	CB	ILE	109	32.422	17.312	37.526	0.1303	1.700	C
ATOM	2385	HB	ILE	109	32.221	17.969	38.358	0.0187	1.200	H
ATOM	2386	CG2	ILE	109	31.183	17.271	36.675	-0.3204	1.700	C
ATOM	2387	HG21	ILE	109	30.306	17.003	37.263	0.0882	1.200	H
ATOM	2388	HG22	ILE	109	30.947	18.253	36.269	0.0882	1.200	H
ATOM	2389	HG23	ILE	109	31.307	16.566	35.851	0.0882	1.200	H
ATOM	2390	CG1	ILE	109	32.722	15.915	38.074	-0.0430	1.700	C
ATOM	2391	HG12	ILE	109	32.933	15.287	37.207	0.0236	1.200	H
ATOM	2392	HG13	ILE	109	33.615	15.796	38.638	0.0236	1.200	H
ATOM	2393	CD1	ILE	109	31.549	15.261	38.737	-0.0660	1.700	C
ATOM	2394	HD11	ILE	109	31.859	14.331	39.206	0.0186	1.200	H
ATOM	2395	HD12	ILE	109	31.142	15.919	39.506	0.0186	1.200	H
ATOM	2396	HD13	ILE	109	30.775	15.000	38.015	0.0186	1.200	H
ATOM	2397	C	ILE	109	33.288	19.064	35.913	0.5973	1.700	C
ATOM	2398	O	ILE	109	33.105	19.017	34.691	-0.5679	1.500	O
ATOM	2399	N	LEU	110	33.288	20.207	36.595	-0.4157	1.550	N
ATOM	2400	H	LEU	110	33.499	20.199	37.582	0.2719	1.300	H
ATOM	2401	CA	LEU	110	33.021	21.486	35.946	-0.0518	1.700	C
ATOM	2402	HA	LEU	110	32.013	21.465	35.529	0.0922	1.200	H
ATOM	2403	CB	LEU	110	33.140	22.614	36.965	-0.1102	1.700	C
ATOM	2404	HB2	LEU	110	32.956	22.176	37.948	0.0457	1.200	H
ATOM	2405	HB3	LEU	110	34.172	22.956	37.018	0.0457	1.200	H
ATOM	2406	CG	LEU	110	32.227	23.843	36.930	0.3531	1.700	C
ATOM	2407	HG	LEU	110	31.240	23.576	37.310	-0.0361	1.200	H
ATOM	2408	CD1	LEU	110	32.859	24.877	37.817	-0.4121	1.700	C

ATOM	2409	HD11	LEU	110	32.326	25.807	37.719	0.1000	1.200	H
ATOM	2410	HD12	LEU	110	32.843	24.546	38.855	0.1000	1.200	H
ATOM	2411	HD13	LEU	110	33.885	25.071	37.510	0.1000	1.200	H
ATOM	2412	CD2	LEU	110	32.075	24.394	35.535	-0.4121	1.700	C
ATOM	2413	HD21	LEU	110	31.430	25.271	35.548	0.1000	1.200	H
ATOM	2414	HD22	LEU	110	33.057	24.665	35.156	0.1000	1.200	H
ATOM	2415	HD23	LEU	110	31.629	23.651	34.876	0.1000	1.200	H
ATOM	2416	C	LEU	110	34.043	21.703	34.837	0.5973	1.700	C
ATOM	2417	O	LEU	110	33.685	21.760	33.660	-0.5679	1.500	O
ATOM	2418	N	ASP	111	35.320	21.779	35.224	-0.4157	1.550	N
ATOM	2419	H	ASP	111	35.538	21.694	36.205	0.2719	1.300	H
ATOM	2420	CA	ASP	111	36.447	21.993	34.299	0.0341	1.700	C
ATOM	2421	HA	ASP	111	36.399	23.025	33.949	0.0864	1.200	H
ATOM	2422	CB	ASP	111	37.771	21.790	35.019	-0.0316	1.700	C
ATOM	2423	HB2	ASP	111	37.832	20.768	35.399	0.0488	1.200	H
ATOM	2424	HB3	ASP	111	38.584	21.945	34.317	0.0488	1.200	H
ATOM	2425	CG	ASP	111	37.970	22.769	36.152	0.6462	1.700	C
ATOM	2426	OD1	ASP	111	37.621	23.953	35.987	-0.5554	1.500	O
ATOM	2427	OD2	ASP	111	38.469	22.359	37.218	-0.6376	1.500	O
ATOM	2428	HD2	ASP	111	38.567	23.063	37.855	0.4747	1.200	H
ATOM	2429	C	ASP	111	36.409	21.103	33.075	0.5973	1.700	C
ATOM	2430	O	ASP	111	36.720	21.542	31.961	-0.5679	1.500	O
ATOM	2431	N	LEU	112	36.062	19.839	33.288	-0.4157	1.550	N
ATOM	2432	H	LEU	112	35.839	19.523	34.222	0.2719	1.300	H
ATOM	2433	CA	LEU	112	35.957	18.899	32.192	-0.0518	1.700	C
ATOM	2434	HA	LEU	112	36.861	18.957	31.587	0.0922	1.200	H
ATOM	2435	CB	LEU	112	35.795	17.459	32.689	-0.1102	1.700	C
ATOM	2436	HB2	LEU	112	35.083	17.474	33.516	0.0457	1.200	H
ATOM	2437	HB3	LEU	112	35.335	16.860	31.903	0.0457	1.200	H
ATOM	2438	CG	LEU	112	37.087	16.765	33.132	0.3531	1.700	C
ATOM	2439	HG	LEU	112	37.714	17.486	33.659	-0.0361	1.200	H
ATOM	2440	CD1	LEU	112	36.753	15.657	34.111	-0.4121	1.700	C
ATOM	2441	HD11	LEU	112	36.191	16.061	34.950	0.1000	1.200	H
ATOM	2442	HD12	LEU	112	36.159	14.887	33.619	0.1000	1.200	H
ATOM	2443	HD13	LEU	112	37.673	15.213	34.491	0.1000	1.200	H
ATOM	2444	CD2	LEU	112	37.858	16.249	31.922	-0.4121	1.700	C
ATOM	2445	HD21	LEU	112	38.711	15.660	32.256	0.1000	1.200	H
ATOM	2446	HD22	LEU	112	37.223	15.639	31.288	0.1000	1.200	H
ATOM	2447	HD23	LEU	112	38.225	17.092	31.336	0.1000	1.200	H
ATOM	2448	C	LEU	112	34.786	19.285	31.324	0.5973	1.700	C
ATOM	2449	O	LEU	112	34.899	19.233	30.097	-0.5679	1.500	O
ATOM	2450	N	TRP	113	33.669	19.690	31.929	-0.4157	1.550	N
ATOM	2451	H	TRP	113	33.615	19.740	32.937	0.2719	1.300	H
ATOM	2452	CA	TRP	113	32.510	20.093	31.124	-0.0275	1.700	C
ATOM	2453	HA	TRP	113	32.232	19.258	30.478	0.1123	1.200	H
ATOM	2454	CB	TRP	113	31.298	20.453	31.989	-0.0050	1.700	C
ATOM	2455	HB2	TRP	113	30.980	19.570	32.544	0.0339	1.200	H
ATOM	2456	HB3	TRP	113	31.540	21.233	32.704	0.0339	1.200	H
ATOM	2457	CG	TRP	113	30.158	20.934	31.135	-0.1415	1.700	C
ATOM	2458	CD1	TRP	113	29.380	20.177	30.299	-0.1638	1.700	C
ATOM	2459	HD1	TRP	113	29.468	19.106	30.178	0.2062	1.200	H
ATOM	2460	NE1	TRP	113	28.546	20.987	29.566	-0.3418	1.550	N
ATOM	2461	HE1	TRP	113	27.926	20.653	28.843	0.3412	1.300	H
ATOM	2462	CE2	TRP	113	28.757	22.292	29.929	0.1380	1.700	C
ATOM	2463	CZ2	TRP	113	28.153	23.459	29.473	-0.2601	1.700	C
ATOM	2464	HZ2	TRP	113	27.397	23.434	28.703	0.1572	1.200	H
ATOM	2465	CH2	TRP	113	28.568	24.638	30.019	-0.1134	1.700	C
ATOM	2466	HH2	TRP	113	28.149	25.562	29.653	0.1417	1.200	H
ATOM	2467	CZ3	TRP	113	29.566	24.683	31.004	-0.1972	1.700	C
ATOM	2468	HZ3	TRP	113	29.880	25.639	31.397	0.1447	1.200	H
ATOM	2469	CE3	TRP	113	30.169	23.524	31.462	-0.2387	1.700	C
ATOM	2470	HE3	TRP	113	30.939	23.561	32.217	0.1700	1.200	H
ATOM	2471	CD2	TRP	113	29.763	22.298	30.920	0.1243	1.700	C
ATOM	2472	C	TRP	113	32.888	21.278	30.234	0.5973	1.700	C
ATOM	2473	O	TRP	113	32.692	21.248	29.011	-0.5679	1.500	O
ATOM	2474	N	ILE	114	33.460	22.311	30.849	-0.4157	1.550	N
ATOM	2475	H	ILE	114	33.622	22.269	31.845	0.2719	1.300	H
ATOM	2476	CA	ILE	114	33.900	23.503	30.113	-0.0597	1.700	C
ATOM	2477	HA	ILE	114	33.035	23.951	29.623	0.0869	1.200	H
ATOM	2478	CB	ILE	114	34.536	24.551	31.081	0.1303	1.700	C
ATOM	2479	HB	ILE	114	35.388	24.088	31.582	0.0187	1.200	H
ATOM	2480	CG2	ILE	114	35.028	25.748	30.326	-0.3204	1.700	C
ATOM	2481	HG21	ILE	114	35.698	26.349	30.938	0.0882	1.200	H
ATOM	2482	HG22	ILE	114	35.622	25.457	29.468	0.0882	1.200	H
ATOM	2483	HG23	ILE	114	34.190	26.351	29.976	0.0882	1.200	H
ATOM	2484	CG1	ILE	114	33.527	24.994	32.137	-0.0430	1.700	C
ATOM	2485	HG12	ILE	114	32.644	25.394	31.636	0.0236	1.200	H

ATOM	2486	HG13	ILE	114	33.220	24.144	32.743	0.0236	1.200	H
ATOM	2487	CD1	ILE	114	34.073	26.063	33.057	-0.0660	1.700	C
ATOM	2488	HD11	ILE	114	34.785	25.574	33.716	0.0186	1.200	H
ATOM	2489	HD12	ILE	114	34.493	26.921	32.548	0.0186	1.200	H
ATOM	2490	HD13	ILE	114	33.256	26.436	33.674	0.0186	1.200	H
ATOM	2491	C	ILE	114	34.918	23.090	29.031	0.5973	1.700	C
ATOM	2492	O	ILE	114	34.898	23.607	27.919	-0.5679	1.500	O
ATOM	2493	N	TYR	115	35.806	22.155	29.359	-0.4157	1.550	N
ATOM	2494	H	TYR	115	35.792	21.746	30.283	0.2719	1.300	H
ATOM	2495	CA	TYR	115	36.799	21.675	28.405	-0.0014	1.700	C
ATOM	2496	HA	TYR	115	37.371	22.530	28.045	0.0876	1.200	H
ATOM	2497	CB	TYR	115	37.744	20.684	29.062	-0.0152	1.700	C
ATOM	2498	HB2	TYR	115	38.268	21.200	29.864	0.0295	1.200	H
ATOM	2499	HB3	TYR	115	37.183	19.870	29.509	0.0295	1.200	H
ATOM	2500	CG	TYR	115	38.757	20.098	28.101	-0.0011	1.700	C
ATOM	2501	CD1	TYR	115	39.558	20.927	27.326	-0.1906	1.700	C
ATOM	2502	HD1	TYR	115	39.424	21.996	27.372	0.1699	1.200	H
ATOM	2503	CE1	TYR	115	40.545	20.414	26.498	-0.2341	1.700	C
ATOM	2504	HE1	TYR	115	41.170	21.083	25.926	0.1656	1.200	H
ATOM	2505	CZ	TYR	115	40.739	19.056	26.444	0.3226	1.700	C
ATOM	2506	OH	TYR	115	41.771	18.572	25.682	-0.5579	1.500	O
ATOM	2507	HH	TYR	115	42.262	19.265	25.237	0.3992	1.200	H
ATOM	2508	CE2	TYR	115	39.950	18.199	27.192	-0.2341	1.700	C
ATOM	2509	HE2	TYR	115	40.095	17.131	27.133	0.1656	1.200	H
ATOM	2510	CD2	TYR	115	38.960	18.724	28.016	-0.1906	1.700	C
ATOM	2511	HD2	TYR	115	38.353	18.052	28.607	0.1699	1.200	H
ATOM	2512	C	TYR	115	36.151	20.983	27.214	0.5973	1.700	C
ATOM	2513	O	TYR	115	36.506	21.246	26.059	-0.5679	1.500	O
ATOM	2514	N	HIS	116	35.234	20.066	27.496	-0.4157	1.550	N
ATOM	2515	H	HIS	116	34.971	19.888	28.451	0.2719	1.300	H
ATOM	2516	CA	HIS	116	34.564	19.337	26.434	-0.0581	1.700	C
ATOM	2517	HA	HIS	116	35.295	18.793	25.860	0.1360	1.200	H
ATOM	2518	CB	HIS	116	33.639	18.289	27.022	-0.0074	1.700	C
ATOM	2519	HB2	HIS	116	32.958	18.753	27.738	0.0367	1.200	H
ATOM	2520	HB3	HIS	116	33.041	17.856	26.219	0.0367	1.200	H
ATOM	2521	CG	HIS	116	34.367	17.175	27.689	0.1868	1.700	C
ATOM	2522	ND1	HIS	116	34.026	16.705	28.938	-0.5432	1.550	N
ATOM	2523	CE1	HIS	116	34.884	15.769	29.302	0.1635	1.700	C
ATOM	2524	HE1	HIS	116	34.858	15.220	30.231	0.1435	1.200	H
ATOM	2525	NE2	HIS	116	35.765	15.614	28.329	-0.2795	1.550	N
ATOM	2526	HE2	HIS	116	36.539	14.966	28.345	0.3339	1.300	H
ATOM	2527	CD2	HIS	116	35.463	16.479	27.307	-0.2207	1.700	C
ATOM	2528	HD2	HIS	116	36.016	16.608	26.388	0.1862	1.200	H
ATOM	2529	C	HIS	116	33.760	20.256	25.552	0.5973	1.700	C
ATOM	2530	O	HIS	116	33.891	20.244	24.319	-0.5679	1.500	O
ATOM	2531	N	THR	117	32.949	21.070	26.215	-0.4157	1.550	N
ATOM	2532	H	THR	117	32.929	21.012	27.222	0.2719	1.300	H
ATOM	2533	CA	THR	117	32.041	22.013	25.592	-0.0389	1.700	C
ATOM	2534	HA	THR	117	31.475	21.471	24.835	0.1007	1.200	H
ATOM	2535	CB	THR	117	31.044	22.480	26.668	0.3654	1.700	C
ATOM	2536	HB	THR	117	31.594	22.837	27.538	0.0043	1.200	H
ATOM	2537	CG2	THR	117	30.211	23.631	26.178	-0.2438	1.700	C
ATOM	2538	HG21	THR	117	29.165	23.432	26.413	0.0642	1.200	H
ATOM	2539	HG22	THR	117	30.447	24.531	26.727	0.0642	1.200	H
ATOM	2540	HG23	THR	117	30.255	23.779	25.101	0.0642	1.200	H
ATOM	2541	OG1	THR	117	30.208	21.376	27.066	-0.6761	1.500	O
ATOM	2542	HG1	THR	117	29.859	20.960	26.276	0.4102	1.200	H
ATOM	2543	C	THR	117	32.673	23.220	24.887	0.5973	1.700	C
ATOM	2544	O	THR	117	32.385	23.493	23.718	-0.5679	1.500	O
ATOM	2545	N	GLN	118	33.585	23.900	25.569	-0.4157	1.550	N
ATOM	2546	H	GLN	118	33.807	23.630	26.514	0.2719	1.300	H
ATOM	2547	CA	GLN	118	34.183	25.110	25.022	-0.0031	1.700	C
ATOM	2548	HA	GLN	118	33.652	25.392	24.113	0.0850	1.200	H
ATOM	2549	CB	GLN	118	33.977	26.265	26.004	-0.0036	1.700	C
ATOM	2550	HB2	GLN	118	34.496	26.024	26.931	0.0171	1.200	H
ATOM	2551	HB3	GLN	118	34.427	27.169	25.600	0.0171	1.200	H
ATOM	2552	CG	GLN	118	32.516	26.551	26.344	-0.0645	1.700	C
ATOM	2553	HG2	GLN	118	32.086	25.688	26.829	0.0352	1.200	H
ATOM	2554	HG3	GLN	118	32.499	27.368	27.066	0.0352	1.200	H
ATOM	2555	CD	GLN	118	31.734	26.999	25.123	0.6951	1.700	C
ATOM	2556	OE1	GLN	118	30.553	26.420	24.928	-0.6086	1.500	O
ATOM	2557	NE2	GLN	118	32.178	27.875	24.368	-0.9407	1.550	N
ATOM	2558	HE21	GLN	118	31.607	28.183	23.595	0.4251	1.300	H
ATOM	2559	HE22	GLN	118	33.075	28.292	24.553	0.4251	1.300	H
ATOM	2560	C	GLN	118	35.633	25.056	24.613	0.5973	1.700	C
ATOM	2561	O	GLN	118	36.112	26.000	24.006	-0.5679	1.500	O
ATOM	2562	N	GLY	119	36.356	24.001	24.987	-0.4157	1.550	N

ATOM	2563	H	GLY	119	35.923	23.238	25.491	0.2719	1.300	H
ATOM	2564	CA	GLY	119	37.764	23.885	24.599	-0.0252	1.700	C
ATOM	2565	HA2	GLY	119	38.020	22.825	24.575	0.0698	1.200	H
ATOM	2566	HA3	GLY	119	37.895	24.281	23.593	0.0698	1.200	H
ATOM	2567	C	GLY	119	38.786	24.591	25.477	0.5973	1.700	C
ATOM	2568	O	GLY	119	39.948	24.767	25.096	-0.5679	1.500	O
ATOM	2569	N	TYR	120	38.374	24.972	26.676	-0.4157	1.550	N
ATOM	2570	H	TYR	120	37.425	24.795	26.972	0.2719	1.300	H
ATOM	2571	CA	TYR	120	39.266	25.650	27.572	-0.0014	1.700	C
ATOM	2572	HA	TYR	120	40.035	26.187	27.023	0.0876	1.200	H
ATOM	2573	CB	TYR	120	38.491	26.674	28.412	-0.0152	1.700	C
ATOM	2574	HB2	TYR	120	37.664	26.180	28.919	0.0295	1.200	H
ATOM	2575	HB3	TYR	120	39.158	27.068	29.181	0.0295	1.200	H
ATOM	2576	CG	TYR	120	37.982	27.834	27.602	-0.0011	1.700	C
ATOM	2577	CD1	TYR	120	38.867	28.679	26.957	-0.1906	1.700	C
ATOM	2578	HD1	TYR	120	39.928	28.516	27.065	0.1699	1.200	H
ATOM	2579	CE1	TYR	120	38.409	29.722	26.138	-0.2341	1.700	C
ATOM	2580	HE1	TYR	120	39.111	30.354	25.615	0.1656	1.200	H
ATOM	2581	CZ	TYR	120	37.059	29.911	25.971	0.3226	1.700	C
ATOM	2582	OH	TYR	120	36.652	30.877	25.100	-0.5579	1.500	O
ATOM	2583	HH	TYR	120	35.697	30.955	25.057	0.3992	1.200	H
ATOM	2584	CE2	TYR	120	36.141	29.091	26.613	-0.2341	1.700	C
ATOM	2585	HE2	TYR	120	35.080	29.247	26.485	0.1656	1.200	H
ATOM	2586	CD2	TYR	120	36.610	28.054	27.426	-0.1906	1.700	C
ATOM	2587	HD2	TYR	120	35.899	27.424	27.937	0.1699	1.200	H
ATOM	2588	C	TYR	120	39.918	24.594	28.439	0.5973	1.700	C
ATOM	2589	O	TYR	120	39.277	24.014	29.321	-0.5679	1.500	O
ATOM	2590	N	PHE	121	41.197	24.337	28.178	-0.4157	1.550	N
ATOM	2591	H	PHE	121	41.667	24.853	27.448	0.2719	1.300	H
ATOM	2592	CA	PHE	121	41.957	23.329	28.917	-0.0024	1.700	C
ATOM	2593	HA	PHE	121	41.616	22.376	28.523	0.0978	1.200	H
ATOM	2594	CB	PHE	121	43.447	23.446	28.600	-0.0343	1.700	C
ATOM	2595	HB2	PHE	121	43.564	23.679	27.541	0.0295	1.200	H
ATOM	2596	HB3	PHE	121	43.879	24.278	29.159	0.0295	1.200	H
ATOM	2597	CG	PHE	121	44.217	22.195	28.891	0.0118	1.700	C
ATOM	2598	CD1	PHE	121	44.667	21.924	30.171	-0.1256	1.700	C
ATOM	2599	HD1	PHE	121	44.466	22.620	30.967	0.1330	1.200	H
ATOM	2600	CE1	PHE	121	45.314	20.755	30.448	-0.1704	1.700	C
ATOM	2601	HE1	PHE	121	45.648	20.558	31.455	0.1430	1.200	H
ATOM	2602	CZ	PHE	121	45.528	19.829	29.441	-0.1072	1.700	C
ATOM	2603	HZ	PHE	121	46.028	18.896	29.645	0.1297	1.200	H
ATOM	2604	CE2	PHE	121	45.090	20.086	28.164	-0.1704	1.700	C
ATOM	2605	HE2	PHE	121	45.223	19.346	27.388	0.1430	1.200	H
ATOM	2606	CD2	PHE	121	44.439	21.264	27.893	-0.1256	1.700	C
ATOM	2607	HD2	PHE	121	43.981	21.427	26.946	0.1330	1.200	H
ATOM	2608	C	PHE	121	41.693	23.463	30.410	0.5973	1.700	C
ATOM	2609	O	PHE	121	41.889	24.526	30.984	-0.5679	1.500	O
ATOM	2610	N	PRO	122	41.298	22.362	31.064	-0.2548	1.550	N
ATOM	2611	CD	PRO	122	41.219	21.025	30.447	0.0192	1.700	C
ATOM	2612	HD2	PRO	122	42.116	20.765	29.888	0.0391	1.200	H
ATOM	2613	HD3	PRO	122	40.342	20.961	29.824	0.0391	1.200	H
ATOM	2614	CG	PRO	122	41.085	20.117	31.645	0.0189	1.700	C
ATOM	2615	HG2	PRO	122	42.075	19.877	32.039	0.0213	1.200	H
ATOM	2616	HG3	PRO	122	40.552	19.201	31.387	0.0213	1.200	H
ATOM	2617	CB	PRO	122	40.342	20.911	32.616	-0.0070	1.700	C
ATOM	2618	HB2	PRO	122	40.377	20.472	33.613	0.0253	1.200	H
ATOM	2619	HB3	PRO	122	39.303	20.964	32.291	0.0253	1.200	H
ATOM	2620	CA	PRO	122	40.975	22.290	32.491	-0.0266	1.700	C
ATOM	2621	HA	PRO	122	40.204	23.035	32.694	0.0641	1.200	H
ATOM	2622	C	PRO	122	42.073	22.515	33.508	0.5896	1.700	C
ATOM	2623	O	PRO	122	42.171	21.780	34.484	-0.5748	1.500	O
ATOM	2624	N	ASP	123	42.811	23.608	33.365	-0.5163	1.550	N
ATOM	2625	H	ASP	123	42.689	24.215	32.569	0.2936	1.300	H
ATOM	2626	CA	ASP	123	43.896	23.913	34.293	0.0381	1.700	C
ATOM	2627	HA	ASP	123	43.772	23.366	35.228	0.0880	1.200	H
ATOM	2628	CB	ASP	123	45.218	23.514	33.659	-0.0303	1.700	C
ATOM	2629	HB2	ASP	123	46.008	23.573	34.409	-0.0122	1.200	H
ATOM	2630	HB3	ASP	123	45.160	22.475	33.331	-0.0122	1.200	H
ATOM	2631	CG	ASP	123	45.593	24.386	32.478	0.7994	1.700	C
ATOM	2632	OD1	ASP	123	44.743	25.172	31.992	-0.8014	1.500	O
ATOM	2633	OD2	ASP	123	46.755	24.279	32.033	-0.8014	1.500	O
ATOM	2634	C	ASP	123	43.956	25.393	34.630	0.5366	1.700	C
ATOM	2635	O	ASP	123	45.022	25.927	34.927	-0.5819	1.500	O
ATOM	2636	N	TRP	124	42.815	26.056	34.597	-0.4157	1.550	N
ATOM	2637	H	TRP	124	41.964	25.588	34.322	0.2719	1.300	H
ATOM	2638	CA	TRP	124	42.790	27.481	34.834	-0.0275	1.700	C
ATOM	2639	HA	TRP	124	43.799	27.893	34.886	0.1123	1.200	H

ATOM	2640	CB	TRP	124	42.094	28.158	33.656	-0.0050	1.700	C
ATOM	2641	HB2	TRP	124	42.066	29.236	33.824	0.0339	1.200	H
ATOM	2642	HB3	TRP	124	42.677	27.978	32.751	0.0339	1.200	H
ATOM	2643	CG	TRP	124	40.695	27.658	33.438	-0.1415	1.700	C
ATOM	2644	CD1	TRP	124	40.296	26.664	32.580	-0.1638	1.700	C
ATOM	2645	HD1	TRP	124	40.937	26.224	31.864	0.2062	1.200	H
ATOM	2646	NE1	TRP	124	38.956	26.413	32.742	-0.3418	1.550	N
ATOM	2647	HE1	TRP	124	38.441	25.722	32.214	0.3412	1.300	H
ATOM	2648	CE2	TRP	124	38.458	27.258	33.703	0.1380	1.700	C
ATOM	2649	CZ2	TRP	124	37.160	27.386	34.209	-0.2601	1.700	C
ATOM	2650	HZ2	TRP	124	36.386	26.750	33.861	0.1572	1.200	H
ATOM	2651	CH2	TRP	124	36.951	28.330	35.177	-0.1134	1.700	C
ATOM	2652	HH2	TRP	124	35.965	28.434	35.599	0.1417	1.200	H
ATOM	2653	CZ3	TRP	124	37.992	29.145	35.647	-0.1972	1.700	C
ATOM	2654	HZ3	TRP	124	37.796	29.871	36.419	0.1447	1.200	H
ATOM	2655	CE3	TRP	124	39.276	29.023	35.148	-0.2387	1.700	C
ATOM	2656	HE3	TRP	124	40.067	29.658	35.513	0.1700	1.200	H
ATOM	2657	CD2	TRP	124	39.525	28.062	34.157	0.1243	1.700	C
ATOM	2658	C	TRP	124	42.086	27.848	36.113	0.5973	1.700	C
ATOM	2659	O	TRP	124	42.426	28.857	36.746	-0.5679	1.500	O
ATOM	2660	N	GLN	125	41.137	27.007	36.521	-0.4157	1.550	N
ATOM	2661	H	GLN	125	40.908	26.194	35.968	0.2719	1.300	H
ATOM	2662	CA	GLN	125	40.353	27.283	37.706	-0.0031	1.700	C
ATOM	2663	HA	GLN	125	40.093	28.342	37.671	0.0850	1.200	H
ATOM	2664	CB	GLN	125	39.021	26.514	37.691	-0.0036	1.700	C
ATOM	2665	HB2	GLN	125	38.558	26.653	36.717	0.0171	1.200	H
ATOM	2666	HB3	GLN	125	39.218	25.449	37.799	0.0171	1.200	H
ATOM	2667	CG	GLN	125	38.056	26.995	38.769	-0.0645	1.700	C
ATOM	2668	HG2	GLN	125	38.432	26.916	39.779	0.0352	1.200	H
ATOM	2669	HG3	GLN	125	37.864	28.056	38.600	0.0352	1.200	H
ATOM	2670	CD	GLN	125	36.715	26.289	38.766	0.6951	1.700	C
ATOM	2671	OE1	GLN	125	36.344	25.727	37.626	-0.6086	1.500	O
ATOM	2672	NE2	GLN	125	36.003	26.272	39.784	-0.9407	1.550	N
ATOM	2673	HE21	GLN	125	35.075	25.875	39.715	0.4251	1.300	H
ATOM	2674	HE22	GLN	125	36.421	26.499	40.674	0.4251	1.300	H
ATOM	2675	C	GLN	125	41.078	27.077	39.012	0.5973	1.700	C
ATOM	2676	O	GLN	125	40.596	26.359	39.888	-0.5679	1.500	O
ATOM	2677	N	ASN	126	42.202	27.760	39.186	-0.4157	1.550	N
ATOM	2678	H	ASN	126	42.563	28.356	38.460	0.2719	1.300	H
ATOM	2679	CA	ASN	126	42.954	27.640	40.426	0.0143	1.700	C
ATOM	2680	HA	ASN	126	42.755	26.684	40.915	0.1048	1.200	H
ATOM	2681	CB	ASN	126	44.439	27.733	40.137	-0.2041	1.700	C
ATOM	2682	HB2	ASN	126	44.673	28.756	39.842	0.0797	1.200	H
ATOM	2683	HB3	ASN	126	45.006	27.505	41.041	0.0797	1.200	H
ATOM	2684	CG	ASN	126	44.858	26.806	39.054	0.7130	1.700	C
ATOM	2685	OD1	ASN	126	44.605	25.606	39.129	-0.5931	1.500	O
ATOM	2686	ND2	ASN	126	45.464	27.350	38.005	-0.9191	1.550	N
ATOM	2687	HD21	ASN	126	45.731	26.759	37.229	0.4196	1.300	H
ATOM	2688	HD22	ASN	126	45.627	28.343	37.969	0.4196	1.300	H
ATOM	2689	C	ASN	126	42.565	28.788	41.334	0.5973	1.700	C
ATOM	2690	O	ASN	126	42.388	29.919	40.852	-0.5679	1.500	O
ATOM	2691	N	TYR	127	42.434	28.509	42.632	-0.4157	1.550	N
ATOM	2692	H	TYR	127	42.607	27.571	42.963	0.2719	1.300	H
ATOM	2693	CA	TYR	127	42.097	29.535	43.614	-0.0014	1.700	C
ATOM	2694	HA	TYR	127	41.820	30.462	43.116	0.0876	1.200	H
ATOM	2695	CB	TYR	127	40.915	29.088	44.462	-0.0152	1.700	C
ATOM	2696	HB2	TYR	127	41.152	28.168	44.999	0.0295	1.200	H
ATOM	2697	HB3	TYR	127	40.715	29.882	45.170	0.0295	1.200	H
ATOM	2698	CG	TYR	127	39.665	28.930	43.636	-0.0011	1.700	C
ATOM	2699	CD1	TYR	127	39.060	30.036	43.039	-0.1906	1.700	C
ATOM	2700	HD1	TYR	127	39.449	31.018	43.236	0.1699	1.200	H
ATOM	2701	CE1	TYR	127	37.942	29.892	42.217	-0.2341	1.700	C
ATOM	2702	HE1	TYR	127	37.456	30.751	41.792	0.1656	1.200	H
ATOM	2703	CZ	TYR	127	37.420	28.631	41.992	0.3226	1.700	C
ATOM	2704	OH	TYR	127	36.330	28.484	41.164	-0.5579	1.500	O
ATOM	2705	HH	TYR	127	35.995	27.590	41.129	0.3992	1.200	H
ATOM	2706	CE2	TYR	127	37.999	27.517	42.578	-0.2341	1.700	C
ATOM	2707	HE2	TYR	127	37.603	26.529	42.396	0.1656	1.200	H
ATOM	2708	CD2	TYR	127	39.116	27.673	43.395	-0.1906	1.700	C
ATOM	2709	HD2	TYR	127	39.578	26.796	43.826	0.1699	1.200	H
ATOM	2710	C	TYR	127	43.320	29.825	44.473	0.5973	1.700	C
ATOM	2711	O	TYR	127	44.352	29.186	44.288	-0.5679	1.500	O
ATOM	2712	N	THR	128	43.246	30.824	45.351	-0.4157	1.550	N
ATOM	2713	H	THR	128	42.399	31.365	45.446	0.2719	1.300	H
ATOM	2714	CA	THR	128	44.380	31.145	46.209	-0.0389	1.700	C
ATOM	2715	HA	THR	128	45.290	31.002	45.626	0.1007	1.200	H
ATOM	2716	CB	THR	128	44.366	32.607	46.709	0.3654	1.700	C

ATOM	2717	HB	THR	128	45.215	32.787	47.365	0.0043	1.200	H
ATOM	2718	CG2	THR	128	44.458	33.582	45.545	-0.2438	1.700	C
ATOM	2719	HG21	THR	128	45.501	33.859	45.412	0.0642	1.200	H
ATOM	2720	HG22	THR	128	44.171	33.131	44.608	0.0642	1.200	H
ATOM	2721	HG23	THR	128	43.894	34.486	45.754	0.0642	1.200	H
ATOM	2722	OG1	THR	128	43.179	32.842	47.474	-0.6761	1.500	O
ATOM	2723	HG1	THR	128	43.367	33.538	48.110	0.4102	1.200	H
ATOM	2724	C	THR	128	44.385	30.218	47.415	0.5973	1.700	C
ATOM	2725	O	THR	128	43.335	29.684	47.810	-0.5679	1.500	O
ATOM	2726	N	PRO	129	45.557	30.064	48.057	-0.2548	1.550	N
ATOM	2727	CD	PRO	129	46.804	30.794	47.793	0.0192	1.700	C
ATOM	2728	HD2	PRO	129	46.846	31.660	48.442	0.0391	1.200	H
ATOM	2729	HD3	PRO	129	46.959	31.058	46.750	0.0391	1.200	H
ATOM	2730	CG	PRO	129	47.801	29.802	48.220	0.0189	1.700	C
ATOM	2731	HG2	PRO	129	48.770	30.259	48.418	0.0213	1.200	H
ATOM	2732	HG3	PRO	129	47.881	28.991	47.493	0.0213	1.200	H
ATOM	2733	CB	PRO	129	47.217	29.308	49.505	-0.0070	1.700	C
ATOM	2734	HB2	PRO	129	47.422	30.034	50.296	0.0253	1.200	H
ATOM	2735	HB3	PRO	129	47.634	28.338	49.780	0.0253	1.200	H
ATOM	2736	CA	PRO	129	45.725	29.203	49.226	-0.0266	1.700	C
ATOM	2737	HA	PRO	129	45.442	28.178	48.984	0.0641	1.200	H
ATOM	2738	C	PRO	129	44.947	29.747	50.399	0.5896	1.700	C
ATOM	2739	O	PRO	129	44.924	30.962	50.626	-0.5748	1.500	O
ATOM	2740	N	GLY	130	44.326	28.850	51.153	-0.4157	1.550	N
ATOM	2741	H	GLY	130	44.401	27.866	50.945	0.2719	1.300	H
ATOM	2742	CA	GLY	130	43.566	29.277	52.309	-0.0252	1.700	C
ATOM	2743	HA2	GLY	130	42.964	30.153	52.065	0.0698	1.200	H
ATOM	2744	HA3	GLY	130	42.904	28.448	52.532	0.0698	1.200	H
ATOM	2745	C	GLY	130	44.422	29.566	53.537	0.5973	1.700	C
ATOM	2746	O	GLY	130	45.634	29.804	53.440	-0.5679	1.500	O
ATOM	2747	N	PRO	131	43.793	29.624	54.715	-0.2548	1.550	N
ATOM	2748	CD	PRO	131	44.441	29.811	56.022	0.0192	1.700	C
ATOM	2749	HD2	PRO	131	45.060	30.708	56.039	0.0391	1.200	H
ATOM	2750	HD3	PRO	131	45.025	28.925	56.277	0.0391	1.200	H
ATOM	2751	CG	PRO	131	43.255	29.954	56.953	0.0189	1.700	C
ATOM	2752	HG2	PRO	131	42.919	30.993	56.977	0.0213	1.200	H
ATOM	2753	HG3	PRO	131	43.503	29.618	57.961	0.0213	1.200	H
ATOM	2754	CB	PRO	131	42.219	29.085	56.331	-0.0070	1.700	C
ATOM	2755	HB2	PRO	131	41.244	29.312	56.749	0.0253	1.200	H
ATOM	2756	HB3	PRO	131	42.466	28.034	56.491	0.0253	1.200	H
ATOM	2757	CA	PRO	131	42.353	29.432	54.864	-0.0266	1.700	C
ATOM	2758	HA	PRO	131	41.957	28.608	54.276	0.0641	1.200	H
ATOM	2759	C	PRO	131	41.644	30.738	54.523	0.5896	1.700	C
ATOM	2760	O	PRO	131	42.278	31.700	54.097	-0.5748	1.500	O
ATOM	2761	N	GLY	132	40.345	30.796	54.774	-0.4157	1.550	N
ATOM	2762	H	GLY	132	39.852	30.008	55.170	0.2719	1.300	H
ATOM	2763	CA	GLY	132	39.594	31.990	54.435	-0.0252	1.700	C
ATOM	2764	HA2	GLY	132	38.757	32.094	55.126	0.0698	1.200	H
ATOM	2765	HA3	GLY	132	40.212	32.886	54.513	0.0698	1.200	H
ATOM	2766	C	GLY	132	39.052	31.847	53.023	0.5973	1.700	C
ATOM	2767	O	GLY	132	38.847	30.722	52.547	-0.5679	1.500	O
ATOM	2768	N	VAL	133	38.786	32.972	52.362	-0.4157	1.550	N
ATOM	2769	H	VAL	133	38.992	33.866	52.783	0.2719	1.300	H
ATOM	2770	CA	VAL	133	38.259	32.938	51.007	-0.0875	1.700	C
ATOM	2771	HA	VAL	133	37.604	32.077	50.950	0.0969	1.200	H
ATOM	2772	CB	VAL	133	37.420	34.210	50.665	0.2985	1.700	C
ATOM	2773	HB	VAL	133	38.007	35.099	50.900	-0.0297	1.200	H
ATOM	2774	CG1	VAL	133	37.050	34.245	49.205	-0.3192	1.700	C
ATOM	2775	HG11	VAL	133	36.676	35.246	49.006	0.0791	1.200	H
ATOM	2776	HG12	VAL	133	37.911	34.131	48.550	0.0791	1.200	H
ATOM	2777	HG13	VAL	133	36.281	33.523	48.953	0.0791	1.200	H
ATOM	2778	CG2	VAL	133	36.152	34.215	51.467	-0.3192	1.700	C
ATOM	2779	HG21	VAL	133	35.567	35.107	51.244	0.0791	1.200	H
ATOM	2780	HG22	VAL	133	35.600	33.325	51.258	0.0791	1.200	H
ATOM	2781	HG23	VAL	133	36.386	34.221	52.532	0.0791	1.200	H
ATOM	2782	C	VAL	133	39.417	32.752	50.037	0.5973	1.700	C
ATOM	2783	O	VAL	133	40.509	33.317	50.218	-0.5679	1.500	O
ATOM	2784	N	ARG	134	39.172	31.908	49.039	-0.3479	1.550	N
ATOM	2785	H	ARG	134	38.258	31.481	48.973	0.2747	1.300	H
ATOM	2786	CA	ARG	134	40.146	31.589	48.014	-0.2637	1.700	C
ATOM	2787	HA	ARG	134	41.144	31.868	48.344	0.1560	1.200	H
ATOM	2788	CB	ARG	134	40.120	30.090	47.727	-0.0007	1.700	C
ATOM	2789	HB2	ARG	134	39.395	29.848	46.961	0.0327	1.200	H
ATOM	2790	HB3	ARG	134	41.070	29.812	47.298	0.0327	1.200	H
ATOM	2791	CG	ARG	134	39.881	29.239	48.944	0.0390	1.700	C
ATOM	2792	HG2	ARG	134	38.846	29.340	49.273	0.0285	1.200	H
ATOM	2793	HG3	ARG	134	40.032	28.200	48.654	0.0285	1.200	H

ATOM	2794	CD	ARG	134	40.795	29.617	50.099	0.0486	1.700	C
ATOM	2795	HD2	ARG	134	41.832	29.454	49.811	0.0687	1.200	H
ATOM	2796	HD3	ARG	134	40.711	30.651	50.405	0.0687	1.200	H
ATOM	2797	NE	ARG	134	40.472	28.805	51.265	-0.5295	1.550	N
ATOM	2798	HE	ARG	134	39.939	29.240	52.008	0.3456	1.300	H
ATOM	2799	CZ	ARG	134	40.791	27.522	51.370	0.8076	1.700	C
ATOM	2800	NH1	ARG	134	41.458	26.925	50.384	-0.8627	1.550	N
ATOM	2801	HH11	ARG	134	41.779	27.475	49.600	0.4478	1.300	H
ATOM	2802	HH12	ARG	134	41.619	25.930	50.404	0.4478	1.300	H
ATOM	2803	NH2	ARG	134	40.370	26.815	52.411	-0.8627	1.550	N
ATOM	2804	HH21	ARG	134	40.577	25.834	52.483	0.4478	1.300	H
ATOM	2805	HH22	ARG	134	39.827	27.278	53.128	0.4478	1.300	H
ATOM	2806	C	ARG	134	39.744	32.341	46.772	0.7341	1.700	C
ATOM	2807	O	ARG	134	38.669	32.104	46.226	-0.5894	1.500	O
ATOM	2808	N	TYR	135	40.615	33.228	46.319	-0.4157	1.550	N
ATOM	2809	H	TYR	135	41.487	33.367	46.807	0.2719	1.300	H
ATOM	2810	CA	TYR	135	40.339	34.039	45.151	-0.0014	1.700	C
ATOM	2811	HA	TYR	135	39.258	34.146	45.073	0.0876	1.200	H
ATOM	2812	CB	TYR	135	40.902	35.456	45.332	-0.0152	1.700	C
ATOM	2813	HB2	TYR	135	41.978	35.417	45.475	0.0295	1.200	H
ATOM	2814	HB3	TYR	135	40.712	36.032	44.425	0.0295	1.200	H
ATOM	2815	CG	TYR	135	40.274	36.166	46.492	-0.0011	1.700	C
ATOM	2816	CD1	TYR	135	39.050	36.801	46.353	-0.1906	1.700	C
ATOM	2817	HD1	TYR	135	38.573	36.819	45.386	0.1699	1.200	H
ATOM	2818	CE1	TYR	135	38.425	37.381	47.438	-0.2341	1.700	C
ATOM	2819	HE1	TYR	135	37.472	37.871	47.312	0.1656	1.200	H
ATOM	2820	CZ	TYR	135	39.032	37.339	48.683	0.3226	1.700	C
ATOM	2821	OH	TYR	135	38.412	37.945	49.760	-0.5579	1.500	O
ATOM	2822	HH	TYR	135	37.590	38.380	49.527	0.3992	1.200	H
ATOM	2823	CE2	TYR	135	40.257	36.715	48.847	-0.2341	1.700	C
ATOM	2824	HE2	TYR	135	40.725	36.676	49.820	0.1656	1.200	H
ATOM	2825	CD2	TYR	135	40.869	36.137	47.755	-0.1906	1.700	C
ATOM	2826	HD2	TYR	135	41.807	35.621	47.891	0.1699	1.200	H
ATOM	2827	C	TYR	135	40.879	33.424	43.887	0.5973	1.700	C
ATOM	2828	O	TYR	135	41.999	32.921	43.872	-0.5679	1.500	O
ATOM	2829	N	PRO	136	40.106	33.503	42.790	-0.2548	1.550	N
ATOM	2830	CD	PRO	136	38.765	34.097	42.641	0.0192	1.700	C
ATOM	2831	HD2	PRO	136	38.698	35.071	43.127	0.0391	1.200	H
ATOM	2832	HD3	PRO	136	38.022	33.409	43.037	0.0391	1.200	H
ATOM	2833	CG	PRO	136	38.641	34.248	41.161	0.0189	1.700	C
ATOM	2834	HG2	PRO	136	39.168	35.142	40.824	0.0213	1.200	H
ATOM	2835	HG3	PRO	136	37.601	34.298	40.849	0.0213	1.200	H
ATOM	2836	CB	PRO	136	39.307	33.036	40.655	-0.0070	1.700	C
ATOM	2837	HB2	PRO	136	39.542	33.086	39.590	0.0253	1.200	H
ATOM	2838	HB3	PRO	136	38.756	32.149	40.917	0.0253	1.200	H
ATOM	2839	CA	PRO	136	40.555	32.933	41.532	-0.0266	1.700	C
ATOM	2840	HA	PRO	136	40.811	31.882	41.662	0.0641	1.200	H
ATOM	2841	C	PRO	136	41.754	33.674	40.962	0.5896	1.700	C
ATOM	2842	O	PRO	136	41.845	34.909	41.031	-0.5748	1.500	O
ATOM	2843	N	LEU	137	42.707	32.901	40.453	-0.4157	1.550	N
ATOM	2844	H	LEU	137	42.605	31.896	40.468	0.2719	1.300	H
ATOM	2845	CA	LEU	137	43.903	33.473	39.856	-0.0518	1.700	C
ATOM	2846	HA	LEU	137	44.258	34.293	40.480	0.0922	1.200	H
ATOM	2847	CB	LEU	137	45.006	32.418	39.747	-0.1102	1.700	C
ATOM	2848	HB2	LEU	137	44.686	31.691	38.998	0.0457	1.200	H
ATOM	2849	HB3	LEU	137	45.878	32.925	39.330	0.0457	1.200	H
ATOM	2850	CG	LEU	137	45.461	31.620	40.968	0.3531	1.700	C
ATOM	2851	HG	LEU	137	44.682	30.932	41.286	-0.0361	1.200	H
ATOM	2852	CD1	LEU	137	46.683	30.838	40.558	-0.4121	1.700	C
ATOM	2853	HD11	LEU	137	46.993	30.185	41.375	0.1000	1.200	H
ATOM	2854	HD12	LEU	137	46.468	30.223	39.685	0.1000	1.200	H
ATOM	2855	HD13	LEU	137	47.507	31.513	40.317	0.1000	1.200	H
ATOM	2856	CD2	LEU	137	45.813	32.520	42.105	-0.4121	1.700	C
ATOM	2857	HD21	LEU	137	46.293	31.956	42.903	0.1000	1.200	H
ATOM	2858	HD22	LEU	137	46.457	33.321	41.749	0.1000	1.200	H
ATOM	2859	HD23	LEU	137	44.896	32.955	42.495	0.1000	1.200	H
ATOM	2860	C	LEU	137	43.570	34.012	38.467	0.5973	1.700	C
ATOM	2861	O	LEU	137	44.204	34.953	37.986	-0.5679	1.500	O
ATOM	2862	N	THR	138	42.603	33.381	37.809	-0.4157	1.550	N
ATOM	2863	H	THR	138	42.118	32.612	38.247	0.2719	1.300	H
ATOM	2864	CA	THR	138	42.173	33.802	36.481	-0.0389	1.700	C
ATOM	2865	HA	THR	138	43.042	33.991	35.848	0.1007	1.200	H
ATOM	2866	CB	THR	138	41.278	32.732	35.812	0.3654	1.700	C
ATOM	2867	HB	THR	138	40.374	32.581	36.404	0.0043	1.200	H
ATOM	2868	CG2	THR	138	40.888	33.150	34.401	-0.2438	1.700	C
ATOM	2869	HG21	THR	138	40.279	32.365	33.953	0.0642	1.200	H
ATOM	2870	HG22	THR	138	40.297	34.066	34.420	0.0642	1.200	H

ATOM	2871	HG23	THR	138	41.780	33.306	33.793	0.0642	1.200	H
ATOM	2872	OG1	THR	138	41.986	31.492	35.746	-0.6761	1.500	O
ATOM	2873	HG1	THR	138	42.159	31.174	36.635	0.4102	1.200	H
ATOM	2874	C	THR	138	41.360	35.074	36.658	0.5973	1.700	C
ATOM	2875	O	THR	138	40.255	35.038	37.177	-0.5679	1.500	O
ATOM	2876	N	PHE	139	41.940	36.206	36.296	-0.4157	1.550	N
ATOM	2877	H	PHE	139	42.869	36.195	35.903	0.2719	1.300	H
ATOM	2878	CA	PHE	139	41.250	37.479	36.411	-0.0024	1.700	C
ATOM	2879	HA	PHE	139	40.904	37.606	37.436	0.0978	1.200	H
ATOM	2880	CB	PHE	139	42.181	38.616	35.983	-0.0343	1.700	C
ATOM	2881	HB2	PHE	139	43.050	38.591	36.606	0.0295	1.200	H
ATOM	2882	HB3	PHE	139	42.514	38.448	34.957	0.0295	1.200	H
ATOM	2883	CG	PHE	139	41.568	39.979	36.091	0.0118	1.700	C
ATOM	2884	CD1	PHE	139	40.710	40.293	37.143	-0.1256	1.700	C
ATOM	2885	HD1	PHE	139	40.476	39.570	37.908	0.1330	1.200	H
ATOM	2886	CE1	PHE	139	40.175	41.559	37.271	-0.1704	1.700	C
ATOM	2887	HE1	PHE	139	39.529	41.798	38.101	0.1430	1.200	H
ATOM	2888	CZ	PHE	139	40.492	42.534	36.342	-0.1072	1.700	C
ATOM	2889	HZ	PHE	139	40.079	43.528	36.440	0.1297	1.200	H
ATOM	2890	CE2	PHE	139	41.347	42.233	35.282	-0.1704	1.700	C
ATOM	2891	HE2	PHE	139	41.596	42.994	34.557	0.1430	1.200	H
ATOM	2892	CD2	PHE	139	41.878	40.958	35.162	-0.1256	1.700	C
ATOM	2893	HD2	PHE	139	42.545	40.735	34.341	0.1330	1.200	H
ATOM	2894	C	PHE	139	40.099	37.412	35.437	0.5973	1.700	C
ATOM	2895	O	PHE	139	40.324	37.157	34.254	-0.5679	1.500	O
ATOM	2896	N	GLY	140	38.884	37.638	35.923	-0.4157	1.550	N
ATOM	2897	H	GLY	140	38.751	37.858	36.900	0.2719	1.300	H
ATOM	2898	CA	GLY	140	37.737	37.599	35.047	-0.0252	1.700	C
ATOM	2899	HA2	GLY	140	37.198	38.540	35.149	0.0698	1.200	H
ATOM	2900	HA3	GLY	140	38.022	37.496	34.000	0.0698	1.200	H
ATOM	2901	C	GLY	140	36.791	36.477	35.389	0.5973	1.700	C
ATOM	2902	O	GLY	140	35.678	36.430	34.870	-0.5679	1.500	O
ATOM	2903	N	TRP	141	37.259	35.524	36.185	-0.4157	1.550	N
ATOM	2904	H	TRP	141	38.195	35.596	36.559	0.2719	1.300	H
ATOM	2905	CA	TRP	141	36.424	34.403	36.622	-0.0275	1.700	C
ATOM	2906	HA	TRP	141	35.679	34.133	35.873	0.1123	1.200	H
ATOM	2907	CB	TRP	141	37.300	33.178	36.980	-0.0050	1.700	C
ATOM	2908	HB2	TRP	141	37.750	32.788	36.067	0.0339	1.200	H
ATOM	2909	HB3	TRP	141	38.110	33.501	37.633	0.0339	1.200	H
ATOM	2910	CG	TRP	141	36.564	32.052	37.668	-0.1415	1.700	C
ATOM	2911	CD1	TRP	141	36.752	31.614	38.953	-0.1638	1.700	C
ATOM	2912	HD1	TRP	141	37.363	32.100	39.653	0.2062	1.200	H
ATOM	2913	NE1	TRP	141	35.893	30.575	39.230	-0.3418	1.550	N
ATOM	2914	HE1	TRP	141	35.842	30.109	40.124	0.3412	1.300	H
ATOM	2915	CE2	TRP	141	35.133	30.315	38.119	0.1380	1.700	C
ATOM	2916	CZ2	TRP	141	34.135	29.355	37.915	-0.2601	1.700	C
ATOM	2917	HZ2	TRP	141	33.864	28.657	38.693	0.1572	1.200	H
ATOM	2918	CH2	TRP	141	33.528	29.315	36.683	-0.1134	1.700	C
ATOM	2919	HH2	TRP	141	32.799	28.551	36.496	0.1417	1.200	H
ATOM	2920	CZ3	TRP	141	33.892	30.211	35.653	-0.1972	1.700	C
ATOM	2921	HZ3	TRP	141	33.401	30.147	34.693	0.1447	1.200	H
ATOM	2922	CE3	TRP	141	34.892	31.176	35.859	-0.2387	1.700	C
ATOM	2923	HE3	TRP	141	35.173	31.855	35.067	0.1700	1.200	H
ATOM	2924	CD2	TRP	141	35.527	31.230	37.112	0.1243	1.700	C
ATOM	2925	C	TRP	141	35.761	35.001	37.858	0.5973	1.700	C
ATOM	2926	O	TRP	141	36.451	35.384	38.817	-0.5679	1.500	O
ATOM	2927	N	CYS	142	34.441	35.141	37.822	-0.4157	1.550	N
ATOM	2928	H	CYS	142	33.921	34.849	37.009	0.2719	1.300	H
ATOM	2929	CA	CYS	142	33.720	35.766	38.939	0.0213	1.700	C
ATOM	2930	HA	CYS	142	34.390	36.493	39.385	0.1124	1.200	H
ATOM	2931	CB	CYS	142	32.523	36.579	38.430	-0.1231	1.700	C
ATOM	2932	HB2	CYS	142	31.816	35.915	37.936	0.1112	1.200	H
ATOM	2933	HB3	CYS	142	32.014	37.056	39.268	0.1112	1.200	H
ATOM	2934	SG	CYS	142	33.002	37.885	37.286	-0.3119	1.800	S
ATOM	2935	HG	CYS	142	33.860	38.495	38.111	0.1933	1.200	H
ATOM	2936	C	CYS	142	33.294	34.875	40.077	0.5973	1.700	C
ATOM	2937	O	CYS	142	32.340	35.193	40.776	-0.5679	1.500	O
ATOM	2938	N	TYR	143	33.967	33.745	40.257	-0.4157	1.550	N
ATOM	2939	H	TYR	143	34.757	33.523	39.668	0.2719	1.300	H
ATOM	2940	CA	TYR	143	33.648	32.861	41.371	-0.0014	1.700	C
ATOM	2941	HA	TYR	143	32.780	33.221	41.924	0.0876	1.200	H
ATOM	2942	CB	TYR	143	33.321	31.470	40.887	-0.0152	1.700	C
ATOM	2943	HB2	TYR	143	33.908	31.262	40.042	0.0295	1.200	H
ATOM	2944	HB3	TYR	143	33.508	30.739	41.670	0.0295	1.200	H
ATOM	2945	CG	TYR	143	31.922	31.360	40.402	-0.0011	1.700	C
ATOM	2946	CD1	TYR	143	30.900	31.045	41.277	-0.1906	1.700	C
ATOM	2947	HD1	TYR	143	31.124	30.845	42.315	0.1699	1.200	H

ATOM	2948	CE1	TYR	143	29.576	31.003	40.851	-0.2341	1.700	C
ATOM	2949	HE1	TYR	143	28.786	30.787	41.557	0.1656	1.200	H
ATOM	2950	CZ	TYR	143	29.285	31.275	39.532	0.3226	1.700	C
ATOM	2951	OH	TYR	143	27.983	31.274	39.115	-0.5579	1.500	O
ATOM	2952	HH	TYR	143	27.364	31.124	39.836	0.3992	1.200	H
ATOM	2953	CE2	TYR	143	30.295	31.580	38.635	-0.2341	1.700	C
ATOM	2954	HE2	TYR	143	30.056	31.800	37.608	0.1656	1.200	H
ATOM	2955	CD2	TYR	143	31.607	31.624	39.079	-0.1906	1.700	C
ATOM	2956	HD2	TYR	143	32.390	31.883	38.379	0.1699	1.200	H
ATOM	2957	C	TYR	143	34.803	32.803	42.336	0.5973	1.700	C
ATOM	2958	O	TYR	143	35.958	32.751	41.925	-0.5679	1.500	O
ATOM	2959	N	LYS	144	34.487	32.899	43.617	-0.3479	1.550	N
ATOM	2960	H	LYS	144	33.514	32.966	43.885	0.2747	1.300	H
ATOM	2961	CA	LYS	144	35.482	32.833	44.679	-0.2400	1.700	C
ATOM	2962	HA	LYS	144	36.480	32.618	44.302	0.1426	1.200	H
ATOM	2963	CB	LYS	144	35.488	34.128	45.493	-0.0094	1.700	C
ATOM	2964	HB2	LYS	144	36.213	34.003	46.298	0.0362	1.200	H
ATOM	2965	HB3	LYS	144	35.844	34.945	44.885	0.0362	1.200	H
ATOM	2966	CG	LYS	144	34.134	34.427	46.105	0.0187	1.700	C
ATOM	2967	HG2	LYS	144	33.532	34.900	45.337	0.0103	1.200	H
ATOM	2968	HG3	LYS	144	33.648	33.534	46.474	0.0103	1.200	H
ATOM	2969	CD	LYS	144	34.200	35.420	47.258	-0.0479	1.700	C
ATOM	2970	HD2	LYS	144	33.195	35.477	47.680	0.0621	1.200	H
ATOM	2971	HD3	LYS	144	34.855	35.060	48.032	0.0621	1.200	H
ATOM	2972	CE	LYS	144	34.587	36.810	46.811	-0.0143	1.700	C
ATOM	2973	HE2	LYS	144	35.638	36.836	46.519	0.1135	1.200	H
ATOM	2974	HE3	LYS	144	33.980	37.063	45.941	0.1135	1.200	H
ATOM	2975	NZ	LYS	144	34.314	37.814	47.886	-0.3854	1.550	N
ATOM	2976	HZ1	LYS	144	34.352	38.738	47.476	0.3400	1.300	H
ATOM	2977	HZ2	LYS	144	33.387	37.663	48.253	0.3400	1.300	H
ATOM	2978	HZ3	LYS	144	34.998	37.730	48.622	0.3400	1.300	H
ATOM	2979	C	LYS	144	35.010	31.676	45.559	0.7341	1.700	C
ATOM	2980	O	LYS	144	33.867	31.212	45.413	-0.5894	1.500	O
ATOM	2981	N	LEU	145	35.884	31.186	46.436	-0.4157	1.550	N
ATOM	2982	H	LEU	145	36.814	31.574	46.493	0.2719	1.300	H
ATOM	2983	CA	LEU	145	35.520	30.091	47.334	-0.0518	1.700	C
ATOM	2984	HA	LEU	145	34.553	29.673	47.062	0.0922	1.200	H
ATOM	2985	CB	LEU	145	36.555	28.960	47.270	-0.1102	1.700	C
ATOM	2986	HB2	LEU	145	37.516	29.391	47.470	0.0457	1.200	H
ATOM	2987	HB3	LEU	145	36.335	28.270	48.079	0.0457	1.200	H
ATOM	2988	CG	LEU	145	36.581	28.169	45.957	0.3531	1.700	C
ATOM	2989	HG	LEU	145	36.823	28.840	45.133	-0.0361	1.200	H
ATOM	2990	CD1	LEU	145	37.649	27.134	46.059	-0.4121	1.700	C
ATOM	2991	HD11	LEU	145	37.633	26.489	45.182	0.1000	1.200	H
ATOM	2992	HD12	LEU	145	38.626	27.606	46.157	0.1000	1.200	H
ATOM	2993	HD13	LEU	145	37.472	26.499	46.925	0.1000	1.200	H
ATOM	2994	CD2	LEU	145	35.236	27.507	45.671	-0.4121	1.700	C
ATOM	2995	HD21	LEU	145	35.322	26.836	44.816	0.1000	1.200	H
ATOM	2996	HD22	LEU	145	34.900	26.939	46.539	0.1000	1.200	H
ATOM	2997	HD23	LEU	145	34.495	28.263	45.423	0.1000	1.200	H
ATOM	2998	C	LEU	145	35.390	30.638	48.744	0.5973	1.700	C
ATOM	2999	O	LEU	145	36.353	31.165	49.305	-0.5679	1.500	O
ATOM	3000	N	VAL	146	34.191	30.545	49.307	-0.4157	1.550	N
ATOM	3001	H	VAL	146	33.415	30.128	48.816	0.2719	1.300	H
ATOM	3002	CA	VAL	146	33.965	31.085	50.641	-0.0875	1.700	C
ATOM	3003	HA	VAL	146	34.863	31.577	50.936	0.0969	1.200	H
ATOM	3004	CB	VAL	146	32.851	32.162	50.637	0.2985	1.700	C
ATOM	3005	HB	VAL	146	31.924	31.695	50.313	-0.0297	1.200	H
ATOM	3006	CG1	VAL	146	32.651	32.717	52.038	-0.3192	1.700	C
ATOM	3007	HG11	VAL	146	31.941	33.543	52.003	0.0791	1.200	H
ATOM	3008	HG12	VAL	146	32.233	31.959	52.700	0.0791	1.200	H
ATOM	3009	HG13	VAL	146	33.589	33.082	52.453	0.0791	1.200	H
ATOM	3010	CG2	VAL	146	33.210	33.291	49.689	-0.3192	1.700	C
ATOM	3011	HG21	VAL	146	32.341	33.948	49.607	0.0791	1.200	H
ATOM	3012	HG22	VAL	146	34.025	33.903	50.046	0.0791	1.200	H
ATOM	3013	HG23	VAL	146	33.435	32.913	48.689	0.0791	1.200	H
ATOM	3014	C	VAL	146	33.617	30.022	51.660	0.5973	1.700	C
ATOM	3015	O	VAL	146	32.620	29.311	51.510	-0.5679	1.500	O
ATOM	3016	N	PRO	147	34.437	29.905	52.720	-0.2548	1.550	N
ATOM	3017	CD	PRO	147	35.594	30.756	53.037	0.0192	1.700	C
ATOM	3018	HD2	PRO	147	35.467	31.798	52.767	0.0391	1.200	H
ATOM	3019	HD3	PRO	147	36.490	30.326	52.599	0.0391	1.200	H
ATOM	3020	CG	PRO	147	35.623	30.684	54.525	0.0189	1.700	C
ATOM	3021	HG2	PRO	147	34.845	31.316	54.957	0.0213	1.200	H
ATOM	3022	HG3	PRO	147	36.600	30.969	54.915	0.0213	1.200	H
ATOM	3023	CB	PRO	147	35.344	29.249	54.772	-0.0070	1.700	C
ATOM	3024	HB2	PRO	147	35.043	29.071	55.806	0.0253	1.200	H

ATOM	3025	HB3	PRO	147	36.229	28.657	54.535	0.0253	1.200	H
ATOM	3026	CA	PRO	147	34.223	28.925	53.781	-0.0266	1.700	C
ATOM	3027	HA	PRO	147	34.364	27.945	53.372	0.0641	1.200	H
ATOM	3028	C	PRO	147	32.838	29.088	54.396	0.5896	1.700	C
ATOM	3029	O	PRO	147	32.497	30.165	54.887	-0.5748	1.500	O
ATOM	3030	N	VAL	148	32.032	28.032	54.287	-0.3821	1.550	N
ATOM	3031	H	VAL	148	32.376	27.197	53.836	0.2681	1.300	H
ATOM	3032	CA	VAL	148	30.668	27.979	54.805	-0.3438	1.700	C
ATOM	3033	HA	VAL	148	30.628	28.409	55.806	0.1438	1.200	H
ATOM	3034	CB	VAL	148	29.652	28.712	53.869	0.1940	1.700	C
ATOM	3035	HB	VAL	148	29.907	29.773	53.833	0.0308	1.200	H
ATOM	3036	CG1	VAL	148	29.729	28.114	52.468	-0.3064	1.700	C
ATOM	3037	HG11	VAL	148	28.929	27.433	52.701	0.0836	1.200	H
ATOM	3038	HG12	VAL	148	29.472	28.983	51.877	0.0836	1.200	H
ATOM	3039	HG13	VAL	148	30.747	27.758	52.293	0.0836	1.200	H
ATOM	3040	CG2	VAL	148	28.240	28.541	54.418	-0.3064	1.700	C
ATOM	3041	HG21	VAL	148	28.186	29.011	55.399	0.0836	1.200	H
ATOM	3042	HG22	VAL	148	27.525	29.037	53.763	0.0836	1.200	H
ATOM	3043	HG23	VAL	148	27.931	27.502	54.536	0.0836	1.200	H
ATOM	3044	C	VAL	148	30.259	26.511	54.877	0.8350	1.700	C
ATOM	3045	O	VAL	148	29.886	25.904	53.863	-0.8173	1.500	O
ATOM	3046	OXT	VAL	148	30.280	25.910	55.949	-0.8173	1.500	O
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ATOM	3047	N	ARG	178	41.130	21.632	56.968	0.1305	1.550	N
ATOM	3048	H1	ARG	178	41.854	20.940	56.843	0.2083	1.300	H
ATOM	3049	H2	ARG	178	40.457	21.298	57.643	0.2083	1.300	H
ATOM	3050	H3	ARG	178	41.543	22.490	57.305	0.2083	1.300	H
ATOM	3051	CA	ARG	178	40.453	21.875	55.696	-0.0223	1.700	C
ATOM	3052	HA	ARG	178	41.065	22.542	55.089	0.1242	1.200	H
ATOM	3053	CB	ARG	178	40.260	20.559	54.928	0.0118	1.700	C
ATOM	3054	HB2	ARG	178	41.236	20.119	54.718	0.0226	1.200	H
ATOM	3055	HB3	ARG	178	39.675	19.861	55.530	0.0226	1.200	H
ATOM	3056	CG	ARG	178	39.534	20.838	53.616	0.0236	1.700	C
ATOM	3057	HG2	ARG	178	38.546	21.260	53.800	0.0309	1.200	H
ATOM	3058	HG3	ARG	178	40.119	21.533	53.011	0.0309	1.200	H
ATOM	3059	CD	ARG	178	39.343	19.531	52.853	0.0935	1.700	C
ATOM	3060	HD2	ARG	178	40.319	19.087	52.652	0.0527	1.200	H
ATOM	3061	HD3	ARG	178	38.757	18.843	53.464	0.0527	1.200	H
ATOM	3062	NE	ARG	178	38.640	19.763	51.572	-0.5650	1.550	N
ATOM	3063	HE	ARG	178	38.348	20.706	51.361	0.3592	1.300	H
ATOM	3064	CZ	ARG	178	38.350	18.786	50.718	0.8281	1.700	C
ATOM	3065	NH1	ARG	178	38.674	17.519	50.960	-0.8693	1.550	N
ATOM	3066	HH11	ARG	178	38.439	16.798	50.295	0.4494	1.300	H
ATOM	3067	HH12	ARG	178	39.163	17.276	51.809	0.4494	1.300	H
ATOM	3068	NH2	ARG	178	37.715	19.107	49.594	-0.8693	1.550	N
ATOM	3069	HH21	ARG	178	37.479	20.070	49.400	0.4494	1.300	H
ATOM	3070	HH22	ARG	178	37.464	18.383	48.939	0.4494	1.300	H
ATOM	3071	C	ARG	178	39.097	22.526	55.951	0.7214	1.700	C
ATOM	3072	O	ARG	178	38.273	21.995	56.709	-0.6013	1.500	O
ATOM	3073	N	GLU	179	38.872	23.682	55.334	-0.5163	1.550	N
ATOM	3074	H	GLU	179	39.575	24.098	54.742	0.2936	1.300	H
ATOM	3075	CA	GLU	179	37.611	24.393	55.509	0.0397	1.700	C
ATOM	3076	HA	GLU	179	37.215	24.226	56.512	0.1105	1.200	H
ATOM	3077	CB	GLU	179	37.803	25.898	55.310	0.0560	1.700	C
ATOM	3078	HB2	GLU	179	37.984	26.071	54.248	-0.0173	1.200	H
ATOM	3079	HB3	GLU	179	36.871	26.401	55.570	-0.0173	1.200	H
ATOM	3080	CG	GLU	179	38.933	26.555	56.073	0.0136	1.700	C
ATOM	3081	HG2	GLU	179	38.741	26.466	57.144	-0.0425	1.200	H
ATOM	3082	HG3	GLU	179	39.875	26.049	55.851	-0.0425	1.200	H
ATOM	3083	CD	GLU	179	39.087	28.020	55.693	0.8054	1.700	C
ATOM	3084	OE1	GLU	179	39.480	28.290	54.542	-0.8188	1.500	O
ATOM	3085	OE2	GLU	179	38.800	28.907	56.528	-0.8188	1.500	O
ATOM	3086	C	GLU	179	36.606	23.926	54.468	0.5366	1.700	C
ATOM	3087	O	GLU	179	36.979	23.575	53.346	-0.5819	1.500	O
ATOM	3088	N	VAL	180	35.337	23.904	54.845	-0.4157	1.550	N
ATOM	3089	H	VAL	180	35.064	24.220	55.765	0.2719	1.300	H
ATOM	3090	CA	VAL	180	34.293	23.544	53.904	-0.0875	1.700	C
ATOM	3091	HA	VAL	180	34.613	22.755	53.222	0.0969	1.200	H
ATOM	3092	CB	VAL	180	32.992	23.151	54.613	0.2985	1.700	C
ATOM	3093	HB	VAL	180	32.655	23.972	55.247	-0.0297	1.200	H
ATOM	3094	CG1	VAL	180	31.905	22.852	53.594	-0.3192	1.700	C
ATOM	3095	HG11	VAL	180	30.989	22.591	54.124	0.0791	1.200	H
ATOM	3096	HG12	VAL	180	31.709	23.734	52.986	0.0791	1.200	H
ATOM	3097	HG13	VAL	180	32.201	22.022	52.953	0.0791	1.200	H
ATOM	3098	CG2	VAL	180	33.230	21.947	55.502	-0.3192	1.700	C
ATOM	3099	HG21	VAL	180	32.291	21.649	55.971	0.0791	1.200	H
ATOM	3100	HG22	VAL	180	33.613	21.113	54.912	0.0791	1.200	H

ATOM	3101	HG23	VAL	180	33.939	22.188	56.294	0.0791	1.200	H
ATOM	3102	C	VAL	180	34.062	24.857	53.174	0.5973	1.700	C
ATOM	3103	O	VAL	180	33.764	25.870	53.811	-0.5679	1.500	O
ATOM	3104	N	LEU	181	34.243	24.842	51.855	-0.4157	1.550	N
ATOM	3105	H	LEU	181	34.467	23.970	51.402	0.2719	1.300	H
ATOM	3106	CA	LEU	181	34.085	26.022	51.010	-0.0518	1.700	C
ATOM	3107	HA	LEU	181	33.992	26.915	51.623	0.0922	1.200	H
ATOM	3108	CB	LEU	181	35.314	26.179	50.111	-0.1102	1.700	C
ATOM	3109	HB2	LEU	181	35.284	25.380	49.371	0.0457	1.200	H
ATOM	3110	HB3	LEU	181	35.218	27.123	49.576	0.0457	1.200	H
ATOM	3111	CG	LEU	181	36.677	26.128	50.802	0.3531	1.700	C
ATOM	3112	HG	LEU	181	36.754	25.219	51.393	-0.0361	1.200	H
ATOM	3113	CD1	LEU	181	37.780	26.065	49.775	-0.4121	1.700	C
ATOM	3114	HD11	LEU	181	38.730	25.890	50.273	0.1000	1.200	H
ATOM	3115	HD12	LEU	181	37.601	25.242	49.083	0.1000	1.200	H
ATOM	3116	HD13	LEU	181	37.834	27.000	49.224	0.1000	1.200	H
ATOM	3117	CD2	LEU	181	36.850	27.323	51.722	-0.4121	1.700	C
ATOM	3118	HD21	LEU	181	37.852	27.344	52.135	0.1000	1.200	H
ATOM	3119	HD22	LEU	181	36.669	28.253	51.182	0.1000	1.200	H
ATOM	3120	HD23	LEU	181	36.158	27.236	52.553	0.1000	1.200	H
ATOM	3121	C	LEU	181	32.850	25.925	50.132	0.5973	1.700	C
ATOM	3122	O	LEU	181	32.410	24.832	49.793	-0.5679	1.500	O
ATOM	3123	N	GLU	182	32.308	27.083	49.765	-0.5163	1.550	N
ATOM	3124	H	GLU	182	32.701	27.944	50.117	0.2936	1.300	H
ATOM	3125	CA	GLU	182	31.143	27.194	48.890	0.0397	1.700	C
ATOM	3126	HA	GLU	182	30.858	26.221	48.498	0.1105	1.200	H
ATOM	3127	CB	GLU	182	29.969	27.828	49.618	0.0560	1.700	C
ATOM	3128	HB2	GLU	182	30.307	28.776	50.030	-0.0173	1.200	H
ATOM	3129	HB3	GLU	182	29.253	28.080	48.834	-0.0173	1.200	H
ATOM	3130	CG	GLU	182	29.276	26.954	50.620	0.0136	1.700	C
ATOM	3131	HG2	GLU	182	29.114	26.110	49.951	-0.0425	1.200	H
ATOM	3132	HG3	GLU	182	29.827	26.230	51.231	-0.0425	1.200	H
ATOM	3133	CD	GLU	182	27.804	27.312	50.764	0.8054	1.700	C
ATOM	3134	OE1	GLU	182	27.406	28.413	50.318	-0.8188	1.500	O
ATOM	3135	OE2	GLU	182	27.030	26.473	51.281	-0.8188	1.500	O
ATOM	3136	C	GLU	182	31.510	28.129	47.750	0.5366	1.700	C
ATOM	3137	O	GLU	182	32.185	29.144	47.973	-0.5819	1.500	O
ATOM	3138	N	TRP	183	31.079	27.792	46.540	-0.4157	1.550	N
ATOM	3139	H	TRP	183	30.505	26.967	46.425	0.2719	1.300	H
ATOM	3140	CA	TRP	183	31.346	28.626	45.374	-0.0275	1.700	C
ATOM	3141	HA	TRP	183	32.392	28.929	45.338	0.1123	1.200	H
ATOM	3142	CB	TRP	183	30.966	27.891	44.103	-0.0050	1.700	C
ATOM	3143	HB2	TRP	183	30.226	27.138	44.353	0.0339	1.200	H
ATOM	3144	HB3	TRP	183	30.516	28.595	43.402	0.0339	1.200	H
ATOM	3145	CG	TRP	183	32.072	27.192	43.367	-0.1415	1.700	C
ATOM	3146	CD1	TRP	183	33.039	27.769	42.587	-0.1638	1.700	C
ATOM	3147	HD1	TRP	183	33.178	28.831	42.476	0.2062	1.200	H
ATOM	3148	NE1	TRP	183	33.728	26.803	41.890	-0.3418	1.550	N
ATOM	3149	HE1	TRP	183	34.435	27.003	41.201	0.3412	1.300	H
ATOM	3150	CE2	TRP	183	33.231	25.571	42.232	0.1380	1.700	C
ATOM	3151	CZ2	TRP	183	33.601	24.292	41.796	-0.2601	1.700	C
ATOM	3152	HZ2	TRP	183	34.294	24.165	41.010	0.1572	1.200	H
ATOM	3153	CH2	TRP	183	32.914	23.222	42.320	-0.1134	1.700	C
ATOM	3154	HH2	TRP	183	33.145	22.228	41.980	0.1417	1.200	H
ATOM	3155	CZ3	TRP	183	31.883	23.398	43.255	-0.1972	1.700	C
ATOM	3156	HZ3	TRP	183	31.363	22.536	43.645	0.1447	1.200	H
ATOM	3157	CE3	TRP	183	31.515	24.661	43.686	-0.2387	1.700	C
ATOM	3158	HE3	TRP	183	30.719	24.786	44.405	0.1700	1.200	H
ATOM	3159	CD2	TRP	183	32.194	25.776	43.170	0.1243	1.700	C
ATOM	3160	C	TRP	183	30.452	29.850	45.490	0.5973	1.700	C
ATOM	3161	O	TRP	183	29.222	29.721	45.534	-0.5679	1.500	O
ATOM	3162	N	ARG	184	31.060	31.035	45.513	-0.3479	1.550	N
ATOM	3163	H	ARG	184	32.067	31.074	45.495	0.2747	1.300	H
ATOM	3164	CA	ARG	184	30.316	32.292	45.638	-0.2637	1.700	C
ATOM	3165	HA	ARG	184	29.247	32.097	45.567	0.1560	1.200	H
ATOM	3166	CB	ARG	184	30.583	32.942	46.999	-0.0007	1.700	C
ATOM	3167	HB2	ARG	184	31.647	33.125	47.105	0.0327	1.200	H
ATOM	3168	HB3	ARG	184	30.071	33.905	47.035	0.0327	1.200	H
ATOM	3169	CG	ARG	184	30.127	32.111	48.193	0.0390	1.700	C
ATOM	3170	HG2	ARG	184	30.645	31.155	48.205	0.0285	1.200	H
ATOM	3171	HG3	ARG	184	30.457	32.681	49.044	0.0285	1.200	H
ATOM	3172	CD	ARG	184	28.605	31.862	48.199	0.0486	1.700	C
ATOM	3173	HD2	ARG	184	28.081	32.816	48.127	0.0687	1.200	H
ATOM	3174	HD3	ARG	184	28.327	31.256	47.339	0.0687	1.200	H
ATOM	3175	NE	ARG	184	28.161	31.163	49.407	-0.5295	1.550	N
ATOM	3176	HE	ARG	184	27.741	30.248	49.296	0.3456	1.300	H
ATOM	3177	CZ	ARG	184	28.357	31.604	50.654	0.8076	1.700	C

ATOM	3178	NH1	ARG	184	28.983	32.756	50.876	-0.8627	1.550	N
ATOM	3179	HH11	ARG	184	29.114	33.077	51.822	0.4478	1.300	H
ATOM	3180	HH12	ARG	184	29.299	33.306	50.095	0.4478	1.300	H
ATOM	3181	NH2	ARG	184	27.953	30.880	51.691	-0.8627	1.550	N
ATOM	3182	HH21	ARG	184	27.538	29.969	51.522	0.4478	1.300	H
ATOM	3183	HH22	ARG	184	28.112	31.191	52.635	0.4478	1.300	H
ATOM	3184	C	ARG	184	30.659	33.275	44.544	0.7341	1.700	C
ATOM	3185	O	ARG	184	31.799	33.697	44.414	-0.5894	1.500	O
ATOM	3186	N	PHE	185	29.651	33.621	43.753	-0.4157	1.550	N
ATOM	3187	H	PHE	185	28.729	33.243	43.932	0.2719	1.300	H
ATOM	3188	CA	PHE	185	29.790	34.572	42.651	-0.0024	1.700	C
ATOM	3189	HA	PHE	185	30.597	34.234	42.008	0.0978	1.200	H
ATOM	3190	CB	PHE	185	28.497	34.627	41.836	-0.0343	1.700	C
ATOM	3191	HB2	PHE	185	28.251	33.616	41.510	0.0295	1.200	H
ATOM	3192	HB3	PHE	185	27.688	34.988	42.472	0.0295	1.200	H
ATOM	3193	CG	PHE	185	28.578	35.502	40.627	0.0118	1.700	C
ATOM	3194	CD1	PHE	185	28.331	36.861	40.716	-0.1256	1.700	C
ATOM	3195	HD1	PHE	185	28.068	37.303	41.667	0.1330	1.200	H
ATOM	3196	CE1	PHE	185	28.399	37.664	39.589	-0.1704	1.700	C
ATOM	3197	HE1	PHE	185	28.139	38.705	39.670	0.1430	1.200	H
ATOM	3198	CZ	PHE	185	28.715	37.108	38.365	-0.1072	1.700	C
ATOM	3199	HZ	PHE	185	28.759	37.731	37.488	0.1297	1.200	H
ATOM	3200	CE2	PHE	185	28.962	35.762	38.264	-0.1704	1.700	C
ATOM	3201	HE2	PHE	185	29.205	35.330	37.305	0.1430	1.200	H
ATOM	3202	CD2	PHE	185	28.893	34.965	39.390	-0.1256	1.700	C
ATOM	3203	HD2	PHE	185	29.084	33.910	39.295	0.1330	1.200	H
ATOM	3204	C	PHE	185	30.069	35.957	43.206	0.5973	1.700	C
ATOM	3205	O	PHE	185	29.456	36.373	44.187	-0.5679	1.500	O
ATOM	3206	N	ASP	186	30.962	36.682	42.555	-0.5163	1.550	N
ATOM	3207	H	ASP	186	31.397	36.325	41.722	0.2936	1.300	H
ATOM	3208	CA	ASP	186	31.300	38.013	42.988	0.0381	1.700	C
ATOM	3209	HA	ASP	186	30.419	38.514	43.393	0.0880	1.200	H
ATOM	3210	CB	ASP	186	32.399	37.963	44.034	-0.0303	1.700	C
ATOM	3211	HB2	ASP	186	32.093	37.272	44.821	-0.0122	1.200	H
ATOM	3212	HB3	ASP	186	33.323	37.578	43.612	-0.0122	1.200	H
ATOM	3213	CG	ASP	186	32.642	39.297	44.683	0.7994	1.700	C
ATOM	3214	OD1	ASP	186	32.025	40.298	44.256	-0.8014	1.500	O
ATOM	3215	OD2	ASP	186	33.451	39.352	45.627	-0.8014	1.500	O
ATOM	3216	C	ASP	186	31.783	38.731	41.760	0.5366	1.700	C
ATOM	3217	O	ASP	186	32.931	38.567	41.350	-0.5819	1.500	O
ATOM	3218	N	SER	187	30.909	39.545	41.178	-0.4157	1.550	N
ATOM	3219	H	SER	187	29.985	39.664	41.567	0.2719	1.300	H
ATOM	3220	CA	SER	187	31.249	40.268	39.969	-0.0249	1.700	C
ATOM	3221	HA	SER	187	31.608	39.539	39.242	0.0843	1.200	H
ATOM	3222	CB	SER	187	30.019	40.930	39.360	0.2117	1.700	C
ATOM	3223	HB2	SER	187	30.324	41.492	38.476	0.0352	1.200	H
ATOM	3224	HB3	SER	187	29.311	40.182	39.027	0.0352	1.200	H
ATOM	3225	OG	SER	187	29.398	41.819	40.265	-0.6546	1.500	O
ATOM	3226	HG	SER	187	28.754	42.342	39.781	0.4275	1.200	H
ATOM	3227	C	SER	187	32.351	41.283	40.155	0.5973	1.700	C
ATOM	3228	O	SER	187	32.795	41.898	39.195	-0.5679	1.500	O
ATOM	3229	N	ARG	188	32.801	41.496	41.377	-0.3479	1.550	N
ATOM	3230	H	ARG	188	32.436	40.995	42.176	0.2747	1.300	H
ATOM	3231	CA	ARG	188	33.871	42.457	41.526	-0.2637	1.700	C
ATOM	3232	HA	ARG	188	33.699	43.297	40.850	0.1560	1.200	H
ATOM	3233	CB	ARG	188	33.890	43.062	42.916	-0.0007	1.700	C
ATOM	3234	HB2	ARG	188	34.591	43.900	42.925	0.0327	1.200	H
ATOM	3235	HB3	ARG	188	32.891	43.477	43.018	0.0327	1.200	H
ATOM	3236	CG	ARG	188	34.255	42.129	43.997	0.0390	1.700	C
ATOM	3237	HG2	ARG	188	33.977	41.125	43.821	0.0285	1.200	H
ATOM	3238	HG3	ARG	188	35.343	42.049	43.969	0.0285	1.200	H
ATOM	3239	CD	ARG	188	33.958	42.784	45.313	0.0486	1.700	C
ATOM	3240	HD2	ARG	188	34.125	42.042	46.093	0.0687	1.200	H
ATOM	3241	HD3	ARG	188	34.653	43.612	45.465	0.0687	1.200	H
ATOM	3242	NE	ARG	188	32.599	43.307	45.353	-0.5295	1.550	N
ATOM	3243	HE	ARG	188	32.192	43.629	44.490	0.3456	1.300	H
ATOM	3244	CZ	ARG	188	31.866	43.370	46.457	0.8076	1.700	C
ATOM	3245	NH1	ARG	188	32.367	42.932	47.615	-0.8627	1.550	N
ATOM	3246	HH11	ARG	188	31.815	42.983	48.456	0.4478	1.300	H
ATOM	3247	HH12	ARG	188	33.293	42.535	47.634	0.4478	1.300	H
ATOM	3248	NH2	ARG	188	30.644	43.902	46.406	-0.8627	1.550	N
ATOM	3249	HH21	ARG	188	30.075	43.944	47.241	0.4478	1.300	H
ATOM	3250	HH22	ARG	188	30.271	44.239	45.530	0.4478	1.300	H
ATOM	3251	C	ARG	188	35.217	41.854	41.150	0.7341	1.700	C
ATOM	3252	O	ARG	188	36.175	42.587	40.879	-0.5894	1.500	O
ATOM	3253	N	LEU	189	35.255	40.524	41.043	-0.4157	1.550	N
ATOM	3254	H	LEU	189	34.427	39.981	41.244	0.2719	1.300	H

ATOM	3255	CA	LEU	189	36.470	39.807	40.682	-0.0518	1.700	C
ATOM	3256	HA	LEU	189	37.299	40.210	41.260	0.0922	1.200	H
ATOM	3257	CB	LEU	189	36.325	38.314	40.957	-0.1102	1.700	C
ATOM	3258	HB2	LEU	189	35.459	37.953	40.409	0.0457	1.200	H
ATOM	3259	HB3	LEU	189	37.209	37.782	40.600	0.0457	1.200	H
ATOM	3260	CG	LEU	189	36.130	38.053	42.455	0.3531	1.700	C
ATOM	3261	HG	LEU	189	35.318	38.673	42.833	-0.0361	1.200	H
ATOM	3262	CD1	LEU	189	35.750	36.628	42.716	-0.4121	1.700	C
ATOM	3263	HD11	LEU	189	35.407	36.573	43.742	0.1000	1.200	H
ATOM	3264	HD12	LEU	189	34.922	36.337	42.069	0.1000	1.200	H
ATOM	3265	HD13	LEU	189	36.592	35.960	42.543	0.1000	1.200	H
ATOM	3266	CD2	LEU	189	37.389	38.416	43.204	-0.4121	1.700	C
ATOM	3267	HD21	LEU	189	37.255	38.166	44.254	0.1000	1.200	H
ATOM	3268	HD22	LEU	189	38.247	37.871	42.806	0.1000	1.200	H
ATOM	3269	HD23	LEU	189	37.583	39.486	43.163	0.1000	1.200	H
ATOM	3270	C	LEU	189	36.805	40.081	39.233	0.5973	1.700	C
ATOM	3271	O	LEU	189	37.958	39.935	38.819	-0.5679	1.500	O
ATOM	3272	N	ALA	190	35.808	40.504	38.461	-0.4157	1.550	N
ATOM	3273	H	ALA	190	34.880	40.619	38.842	0.2719	1.300	H
ATOM	3274	CA	ALA	190	36.036	40.871	37.064	0.0337	1.700	C
ATOM	3275	HA	ALA	190	36.736	40.179	36.596	0.0823	1.200	H
ATOM	3276	CB	ALA	190	34.727	40.847	36.310	-0.1825	1.700	C
ATOM	3277	HB1	ALA	190	34.832	41.335	35.344	0.0603	1.200	H
ATOM	3278	HB2	ALA	190	34.438	39.818	36.126	0.0603	1.200	H
ATOM	3279	HB3	ALA	190	33.949	41.362	36.872	0.0603	1.200	H
ATOM	3280	C	ALA	190	36.633	42.291	37.031	0.5973	1.700	C
ATOM	3281	O	ALA	190	37.087	42.757	35.984	-0.5679	1.500	O
ATOM	3282	N	PHE	191	36.631	42.964	38.191	-0.4157	1.550	N
ATOM	3283	H	PHE	191	36.229	42.535	39.009	0.2719	1.300	H
ATOM	3284	CA	PHE	191	37.130	44.338	38.340	-0.0024	1.700	C
ATOM	3285	HA	PHE	191	37.527	44.667	37.380	0.0978	1.200	H
ATOM	3286	CB	PHE	191	35.943	45.284	38.671	-0.0343	1.700	C
ATOM	3287	HB2	PHE	191	35.458	44.948	39.588	0.0295	1.200	H
ATOM	3288	HB3	PHE	191	36.336	46.285	38.855	0.0295	1.200	H
ATOM	3289	CG	PHE	191	34.918	45.381	37.551	0.0118	1.700	C
ATOM	3290	CD1	PHE	191	35.220	46.041	36.366	-0.1256	1.700	C
ATOM	3291	HD1	PHE	191	36.161	46.564	36.273	0.1330	1.200	H
ATOM	3292	CE1	PHE	191	34.330	46.006	35.247	-0.1704	1.700	C
ATOM	3293	HE1	PHE	191	34.595	46.513	34.331	0.1430	1.200	H
ATOM	3294	CZ	PHE	191	33.146	45.312	35.330	-0.1072	1.700	C
ATOM	3295	HZ	PHE	191	32.473	45.275	34.486	0.1297	1.200	H
ATOM	3296	CE2	PHE	191	32.824	44.653	36.524	-0.1704	1.700	C
ATOM	3297	HE2	PHE	191	31.894	44.109	36.604	0.1430	1.200	H
ATOM	3298	CD2	PHE	191	33.709	44.695	37.626	-0.1256	1.700	C
ATOM	3299	HD2	PHE	191	33.454	44.169	38.531	0.1330	1.200	H
ATOM	3300	C	PHE	191	38.302	44.509	39.339	0.5973	1.700	C
ATOM	3301	O	PHE	191	39.033	45.492	39.290	-0.5679	1.500	O
ATOM	3302	N	HIS	192	38.530	43.517	40.186	-0.4157	1.550	N
ATOM	3303	H	HIS	192	37.933	42.704	40.180	0.2719	1.300	H
ATOM	3304	CA	HIS	192	39.615	43.561	41.160	-0.0581	1.700	C
ATOM	3305	HA	HIS	192	40.321	44.363	40.941	0.1360	1.200	H
ATOM	3306	CB	HIS	192	39.011	43.785	42.536	-0.0074	1.700	C
ATOM	3307	HB2	HIS	192	38.439	44.714	42.513	0.0367	1.200	H
ATOM	3308	HB3	HIS	192	38.315	42.979	42.777	0.0367	1.200	H
ATOM	3309	CG	HIS	192	40.018	43.904	43.637	0.1868	1.700	C
ATOM	3310	ND1	HIS	192	39.671	43.794	44.967	-0.5432	1.550	N
ATOM	3311	CE1	HIS	192	40.738	44.008	45.714	0.1635	1.700	C
ATOM	3312	HE1	HIS	192	40.771	43.988	46.794	0.1435	1.200	H
ATOM	3313	NE2	HIS	192	41.765	44.246	44.917	-0.2795	1.550	N
ATOM	3314	HE2	HIS	192	42.713	44.438	45.220	0.3339	1.300	H
ATOM	3315	CD2	HIS	192	41.344	44.181	43.612	-0.2207	1.700	C
ATOM	3316	HD2	HIS	192	41.954	44.357	42.739	0.1862	1.200	H
ATOM	3317	C	HIS	192	40.354	42.224	41.163	0.5973	1.700	C
ATOM	3318	O	HIS	192	39.809	41.233	41.614	-0.5679	1.500	O
ATOM	3319	N	HIS	193	41.572	42.179	40.640	-0.4157	1.550	N
ATOM	3320	H	HIS	193	41.981	43.023	40.264	0.2719	1.300	H
ATOM	3321	CA	HIS	193	42.357	40.936	40.610	-0.0581	1.700	C
ATOM	3322	HA	HIS	193	41.699	40.106	40.349	0.1360	1.200	H
ATOM	3323	CB	HIS	193	43.477	41.040	39.572	-0.0074	1.700	C
ATOM	3324	HB2	HIS	193	43.064	41.544	38.697	0.0367	1.200	H
ATOM	3325	HB3	HIS	193	44.302	41.666	39.916	0.0367	1.200	H
ATOM	3326	CG	HIS	193	43.991	39.719	39.075	0.1868	1.700	C
ATOM	3327	ND1	HIS	193	44.894	39.620	38.033	-0.5432	1.550	N
ATOM	3328	CE1	HIS	193	45.162	38.346	37.807	0.1635	1.700	C
ATOM	3329	HE1	HIS	193	45.835	37.965	37.053	0.1435	1.200	H
ATOM	3330	NE2	HIS	193	44.464	37.617	38.662	-0.2795	1.550	N
ATOM	3331	HE2	HIS	193	44.487	36.610	38.725	0.3339	1.300	H

ATOM	3332	CD2	HIS	193	43.723	38.449	39.464	-0.2207	1.700	C
ATOM	3333	HD2	HIS	193	43.059	38.143	40.259	0.1862	1.200	H
ATOM	3334	C	HIS	193	42.971	40.702	41.983	0.5973	1.700	C
ATOM	3335	O	HIS	193	44.185	40.751	42.146	-0.5679	1.500	O
ATOM	3336	N	VAL	194	42.118	40.420	42.957	-0.4157	1.550	N
ATOM	3337	H	VAL	194	41.130	40.414	42.749	0.2719	1.300	H
ATOM	3338	CA	VAL	194	42.517	40.177	44.337	-0.0875	1.700	C
ATOM	3339	HA	VAL	194	42.770	41.139	44.788	0.0969	1.200	H
ATOM	3340	CB	VAL	194	41.347	39.553	45.121	0.2985	1.700	C
ATOM	3341	HB	VAL	194	41.111	38.574	44.702	-0.0297	1.200	H
ATOM	3342	CG1	VAL	194	41.729	39.373	46.562	-0.3192	1.700	C
ATOM	3343	HG11	VAL	194	40.858	39.074	47.142	0.0791	1.200	H
ATOM	3344	HG12	VAL	194	42.481	38.594	46.664	0.0791	1.200	H
ATOM	3345	HG13	VAL	194	42.112	40.308	46.972	0.0791	1.200	H
ATOM	3346	CG2	VAL	194	40.103	40.406	44.995	-0.3192	1.700	C
ATOM	3347	HG21	VAL	194	39.770	40.501	43.967	0.0791	1.200	H
ATOM	3348	HG22	VAL	194	39.292	39.946	45.559	0.0791	1.200	H
ATOM	3349	HG23	VAL	194	40.304	41.381	45.422	0.0791	1.200	H
ATOM	3350	C	VAL	194	43.732	39.248	44.473	0.5973	1.700	C
ATOM	3351	O	VAL	194	44.729	39.598	45.110	-0.5679	1.500	O
ATOM	3352	N	ALA	195	43.632	38.062	43.877	-0.4157	1.550	N
ATOM	3353	H	ALA	195	42.789	37.835	43.370	0.2719	1.300	H
ATOM	3354	CA	ALA	195	44.682	37.050	43.925	0.0337	1.700	C
ATOM	3355	HA	ALA	195	44.747	36.700	44.956	0.0823	1.200	H
ATOM	3356	CB	ALA	195	44.310	35.877	43.071	-0.1825	1.700	C
ATOM	3357	HB1	ALA	195	45.093	35.125	43.138	0.0603	1.200	H
ATOM	3358	HB2	ALA	195	43.367	35.450	43.410	0.0603	1.200	H
ATOM	3359	HB3	ALA	195	44.208	36.190	42.031	0.0603	1.200	H
ATOM	3360	C	ALA	195	46.057	37.542	43.532	0.5973	1.700	C
ATOM	3361	O	ALA	195	47.050	37.092	44.102	-0.5679	1.500	O
ATOM	3362	N	ARG	196	46.141	38.440	42.557	-0.3479	1.550	N
ATOM	3363	H	ARG	196	45.310	38.816	42.122	0.2747	1.300	H
ATOM	3364	CA	ARG	196	47.450	38.938	42.155	-0.2637	1.700	C
ATOM	3365	HA	ARG	196	48.144	38.106	42.081	0.1560	1.200	H
ATOM	3366	CB	ARG	196	47.401	39.650	40.809	-0.0007	1.700	C
ATOM	3367	HB2	ARG	196	46.962	38.984	40.067	0.0327	1.200	H
ATOM	3368	HB3	ARG	196	46.767	40.534	40.904	0.0327	1.200	H
ATOM	3369	CG	ARG	196	48.779	40.052	40.344	0.0390	1.700	C
ATOM	3370	HG2	ARG	196	49.298	40.671	41.049	0.0285	1.200	H
ATOM	3371	HG3	ARG	196	49.414	39.203	40.125	0.0285	1.200	H
ATOM	3372	CD	ARG	196	48.745	41.021	39.207	0.0486	1.700	C
ATOM	3373	HD2	ARG	196	47.789	41.546	39.181	0.0687	1.200	H
ATOM	3374	HD3	ARG	196	49.525	41.760	39.395	0.0687	1.200	H
ATOM	3375	NE	ARG	196	48.975	40.368	37.932	-0.5295	1.550	N
ATOM	3376	HE	ARG	196	48.638	39.423	37.824	0.3456	1.300	H
ATOM	3377	CZ	ARG	196	49.630	40.934	36.928	0.8076	1.700	C
ATOM	3378	NH1	ARG	196	50.116	42.154	37.073	-0.8627	1.550	N
ATOM	3379	HH11	ARG	196	50.645	42.579	36.327	0.4478	1.300	H
ATOM	3380	HH12	ARG	196	49.983	42.644	37.944	0.4478	1.300	H
ATOM	3381	NH2	ARG	196	49.766	40.298	35.769	-0.8627	1.550	N
ATOM	3382	HH21	ARG	196	50.307	40.710	35.025	0.4478	1.300	H
ATOM	3383	HH22	ARG	196	49.380	39.374	35.654	0.4478	1.300	H
ATOM	3384	C	ARG	196	48.044	39.877	43.197	0.7341	1.700	C
ATOM	3385	O	ARG	196	49.229	40.189	43.158	-0.5894	1.500	O
ATOM	3386	N	GLU	197	47.212	40.378	44.097	-0.5163	1.550	N
ATOM	3387	H	GLU	197	46.231	40.142	44.077	0.2936	1.300	H
ATOM	3388	CA	GLU	197	47.703	41.271	45.125	0.0397	1.700	C
ATOM	3389	HA	GLU	197	48.554	41.854	44.768	0.1105	1.200	H
ATOM	3390	CB	GLU	197	46.614	42.238	45.559	0.0560	1.700	C
ATOM	3391	HB2	GLU	197	45.760	41.660	45.904	-0.0173	1.200	H
ATOM	3392	HB3	GLU	197	46.982	42.814	46.410	-0.0173	1.200	H
ATOM	3393	CG	GLU	197	46.186	43.213	44.487	0.0136	1.700	C
ATOM	3394	HG2	GLU	197	46.992	43.926	44.309	-0.0425	1.200	H
ATOM	3395	HG3	GLU	197	45.990	42.677	43.558	-0.0425	1.200	H
ATOM	3396	CD	GLU	197	44.916	43.959	44.868	0.8054	1.700	C
ATOM	3397	OE1	GLU	197	44.283	43.575	45.881	-0.8188	1.500	O
ATOM	3398	OE2	GLU	197	44.543	44.918	44.151	-0.8188	1.500	O
ATOM	3399	C	GLU	197	48.140	40.429	46.301	0.5366	1.700	C
ATOM	3400	O	GLU	197	49.230	40.616	46.826	-0.5819	1.500	O
ATOM	3401	N	LEU	198	47.274	39.507	46.719	-0.4157	1.550	N
ATOM	3402	H	LEU	198	46.382	39.416	46.253	0.2719	1.300	H
ATOM	3403	CA	LEU	198	47.574	38.619	47.837	-0.0518	1.700	C
ATOM	3404	HA	LEU	198	47.816	39.208	48.722	0.0922	1.200	H
ATOM	3405	CB	LEU	198	46.402	37.689	48.131	-0.1102	1.700	C
ATOM	3406	HB2	LEU	198	46.295	37.021	47.275	0.0457	1.200	H
ATOM	3407	HB3	LEU	198	46.684	37.071	48.986	0.0457	1.200	H
ATOM	3408	CG	LEU	198	45.025	38.269	48.389	0.3531	1.700	C

ATOM	3409	HG	LEU	198	44.673	38.796	47.506	-0.0361	1.200	H
ATOM	3410	CD1	LEU	198	44.053	37.154	48.720	-0.4121	1.700	C
ATOM	3411	HD11	LEU	198	43.071	37.580	48.921	0.1000	1.200	H
ATOM	3412	HD12	LEU	198	43.982	36.469	47.874	0.1000	1.200	H
ATOM	3413	HD13	LEU	198	44.389	36.606	49.602	0.1000	1.200	H
ATOM	3414	CD2	LEU	198	45.116	39.234	49.524	-0.4121	1.700	C
ATOM	3415	HD21	LEU	198	44.121	39.609	49.767	0.1000	1.200	H
ATOM	3416	HD22	LEU	198	45.538	38.751	50.407	0.1000	1.200	H
ATOM	3417	HD23	LEU	198	45.734	40.089	49.248	0.1000	1.200	H
ATOM	3418	C	LEU	198	48.768	37.755	47.470	0.5973	1.700	C
ATOM	3419	O	LEU	198	49.586	37.418	48.320	-0.5679	1.500	O
ATOM	3420	N	HIS	199	48.866	37.370	46.210	-0.4157	1.550	N
ATOM	3421	H	HIS	199	48.183	37.661	45.527	0.2719	1.300	H
ATOM	3422	CA	HIS	199	49.955	36.529	45.812	-0.0581	1.700	C
ATOM	3423	HA	HIS	199	50.781	36.566	46.522	0.1360	1.200	H
ATOM	3424	CB	HIS	199	49.494	35.084	45.756	-0.0074	1.700	C
ATOM	3425	HB2	HIS	199	48.689	34.999	45.026	0.0367	1.200	H
ATOM	3426	HB3	HIS	199	50.326	34.457	45.434	0.0367	1.200	H
ATOM	3427	CG	HIS	199	48.990	34.552	47.061	0.1868	1.700	C
ATOM	3428	ND1	HIS	199	49.643	34.033	48.127	-0.5432	1.550	N
ATOM	3429	CE1	HIS	199	48.688	33.684	49.055	0.1635	1.700	C
ATOM	3430	HE1	HIS	199	48.888	33.239	50.019	0.1435	1.200	H
ATOM	3431	NE2	HIS	199	47.493	33.979	48.579	-0.2795	1.550	N
ATOM	3432	HE2	HIS	199	46.618	33.830	49.060	0.3339	1.300	H
ATOM	3433	CD2	HIS	199	47.648	34.504	47.376	-0.2207	1.700	C
ATOM	3434	HD2	HIS	199	46.855	34.860	46.741	0.1862	1.200	H
ATOM	3435	C	HIS	199	50.480	36.939	44.469	0.5973	1.700	C
ATOM	3436	O	HIS	199	50.302	36.229	43.488	-0.5679	1.500	O
ATOM	3437	N	PRO	200	51.207	38.058	44.415	-0.2548	1.550	N
ATOM	3438	CD	PRO	200	51.603	38.906	45.549	0.0192	1.700	C
ATOM	3439	HD2	PRO	200	51.841	38.352	46.456	0.0391	1.200	H
ATOM	3440	HD3	PRO	200	50.845	39.648	45.703	0.0391	1.200	H
ATOM	3441	CG	PRO	200	52.831	39.592	45.001	0.0189	1.700	C
ATOM	3442	HG2	PRO	200	53.692	38.923	45.060	0.0213	1.200	H
ATOM	3443	HG3	PRO	200	53.038	40.519	45.537	0.0213	1.200	H
ATOM	3444	CB	PRO	200	52.474	39.853	43.596	-0.0070	1.700	C
ATOM	3445	HB2	PRO	200	53.356	40.064	42.989	0.0253	1.200	H
ATOM	3446	HB3	PRO	200	51.779	40.692	43.543	0.0253	1.200	H
ATOM	3447	CA	PRO	200	51.775	38.563	43.161	-0.0266	1.700	C
ATOM	3448	HA	PRO	200	50.993	38.778	42.436	0.0641	1.200	H
ATOM	3449	C	PRO	200	52.748	37.591	42.519	0.5896	1.700	C
ATOM	3450	O	PRO	200	52.998	37.649	41.311	-0.5748	1.500	O
ATOM	3451	N	GLU	201	53.287	36.688	43.330	-0.5163	1.550	N
ATOM	3452	H	GLU	201	53.040	36.671	44.311	0.2936	1.300	H
ATOM	3453	CA	GLU	201	54.237	35.703	42.836	0.0397	1.700	C
ATOM	3454	HA	GLU	201	55.093	36.244	42.430	0.1105	1.200	H
ATOM	3455	CB	GLU	201	54.748	34.828	43.983	0.0560	1.700	C
ATOM	3456	HB2	GLU	201	55.522	34.183	43.563	-0.0173	1.200	H
ATOM	3457	HB3	GLU	201	55.242	35.445	44.735	-0.0173	1.200	H
ATOM	3458	CG	GLU	201	53.694	33.920	44.616	0.0136	1.700	C
ATOM	3459	HG2	GLU	201	52.857	33.682	43.980	-0.0425	1.200	H
ATOM	3460	HG3	GLU	201	54.185	32.969	44.832	-0.0425	1.200	H
ATOM	3461	CD	GLU	201	53.152	34.447	45.929	0.8054	1.700	C
ATOM	3462	OE1	GLU	201	53.192	35.679	46.149	-0.8188	1.500	O
ATOM	3463	OE2	GLU	201	52.682	33.625	46.746	-0.8188	1.500	O
ATOM	3464	C	GLU	201	53.667	34.831	41.705	0.5366	1.700	C
ATOM	3465	O	GLU	201	54.368	34.547	40.738	-0.5819	1.500	O
ATOM	3466	N	TYR	202	52.389	34.462	41.796	-0.4157	1.550	N
ATOM	3467	H	TYR	202	51.837	34.750	42.592	0.2719	1.300	H
ATOM	3468	CA	TYR	202	51.773	33.619	40.776	-0.0014	1.700	C
ATOM	3469	HA	TYR	202	52.335	32.689	40.698	0.0876	1.200	H
ATOM	3470	CB	TYR	202	50.314	33.311	41.111	-0.0152	1.700	C
ATOM	3471	HB2	TYR	202	49.759	34.242	41.103	0.0295	1.200	H
ATOM	3472	HB3	TYR	202	49.899	32.660	40.341	0.0295	1.200	H
ATOM	3473	CG	TYR	202	50.099	32.654	42.447	-0.0011	1.700	C
ATOM	3474	CD1	TYR	202	51.054	31.809	42.986	-0.1906	1.700	C
ATOM	3475	HD1	TYR	202	51.963	31.590	42.449	0.1699	1.200	H
ATOM	3476	CE1	TYR	202	50.874	31.226	44.233	-0.2341	1.700	C
ATOM	3477	HE1	TYR	202	51.641	30.586	44.645	0.1656	1.200	H
ATOM	3478	CZ	TYR	202	49.733	31.486	44.948	0.3226	1.700	C
ATOM	3479	OH	TYR	202	49.609	30.950	46.199	-0.5579	1.500	O
ATOM	3480	HH	TYR	202	50.412	30.510	46.487	0.3992	1.200	H
ATOM	3481	CE2	TYR	202	48.762	32.311	44.438	-0.2341	1.700	C
ATOM	3482	HE2	TYR	202	47.881	32.538	45.020	0.1656	1.200	H
ATOM	3483	CD2	TYR	202	48.949	32.895	43.189	-0.1906	1.700	C
ATOM	3484	HD2	TYR	202	48.229	33.608	42.828	0.1699	1.200	H
ATOM	3485	C	TYR	202	51.786	34.268	39.414	0.5973	1.700	C

ATOM	3486	O	TYR	202	51.654	33.581	38.404	-0.5679	1.500	O
ATOM	3487	N	PHE	203	51.960	35.582	39.370	-0.3821	1.550	N
ATOM	3488	H	PHE	203	52.147	36.105	40.214	0.2681	1.300	H
ATOM	3489	CA	PHE	203	51.902	36.289	38.092	-0.1825	1.700	C
ATOM	3490	HA	PHE	203	51.616	35.596	37.302	0.1098	1.200	H
ATOM	3491	CB	PHE	203	50.777	37.332	38.148	-0.0959	1.700	C
ATOM	3492	HB2	PHE	203	51.099	38.153	38.790	0.0443	1.200	H
ATOM	3493	HB3	PHE	203	50.618	37.738	37.148	0.0443	1.200	H
ATOM	3494	CG	PHE	203	49.488	36.785	38.672	0.0552	1.700	C
ATOM	3495	CD1	PHE	203	49.268	36.690	40.034	-0.1300	1.700	C
ATOM	3496	HD1	PHE	203	50.025	37.030	40.727	0.1408	1.200	H
ATOM	3497	CE1	PHE	203	48.103	36.133	40.532	-0.1847	1.700	C
ATOM	3498	HE1	PHE	203	47.962	36.027	41.598	0.1461	1.200	H
ATOM	3499	CZ	PHE	203	47.137	35.666	39.663	-0.0944	1.700	C
ATOM	3500	HZ	PHE	203	46.236	35.221	40.052	0.1280	1.200	H
ATOM	3501	CE2	PHE	203	47.341	35.757	38.297	-0.1847	1.700	C
ATOM	3502	HE2	PHE	203	46.605	35.382	37.604	0.1461	1.200	H
ATOM	3503	CD2	PHE	203	48.515	36.316	37.806	-0.1300	1.700	C
ATOM	3504	HD2	PHE	203	48.681	36.352	36.739	0.1408	1.200	H
ATOM	3505	C	PHE	203	53.195	36.930	37.607	0.7660	1.700	C
ATOM	3506	O	PHE	203	53.267	37.415	36.464	-0.8026	1.500	O
ATOM	3507	OXT	PHE	203	54.163	37.027	38.358	-0.8026	1.500	O
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PDB co-ordinate of HIV-Nef generated at pH 7.5

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ATOM	1	N	ARG	71	34.264	8.216	17.885	0.1305	1.550	N
ATOM	2	H1	ARG	71	34.455	7.854	16.961	0.2083	1.300	H
ATOM	3	H2	ARG	71	34.717	9.113	17.994	0.2083	1.300	H
ATOM	4	H3	ARG	71	33.267	8.329	18.000	0.2083	1.300	H
ATOM	5	CA	ARG	71	34.775	7.285	18.896	-0.0223	1.700	C
ATOM	6	HA	ARG	71	34.286	6.318	18.787	0.1242	1.200	H
ATOM	7	CB	ARG	71	36.286	7.074	18.738	0.0118	1.700	C
ATOM	8	HB2	ARG	71	36.480	6.720	17.724	0.0226	1.200	H
ATOM	9	HB3	ARG	71	36.794	8.034	18.847	0.0226	1.200	H
ATOM	10	CG	ARG	71	36.888	6.068	19.709	0.0236	1.700	C
ATOM	11	HG2	ARG	71	36.564	6.292	20.726	0.0309	1.200	H
ATOM	12	HG3	ARG	71	36.555	5.061	19.451	0.0309	1.200	H
ATOM	13	CD	ARG	71	38.401	6.135	19.671	0.0935	1.700	C
ATOM	14	HD2	ARG	71	38.733	5.849	18.673	0.0527	1.200	H
ATOM	15	HD3	ARG	71	38.705	7.171	19.823	0.0527	1.200	H
ATOM	16	NE	ARG	71	39.043	5.341	20.715	-0.5650	1.550	N
ATOM	17	HE	ARG	71	38.860	5.593	21.676	0.3592	1.300	H
ATOM	18	CZ	ARG	71	39.876	4.327	20.480	0.8281	1.700	C
ATOM	19	NH1	ARG	71	40.165	3.966	19.232	-0.8693	1.550	N
ATOM	20	HH11	ARG	71	40.789	3.192	19.061	0.4494	1.300	H
ATOM	21	HH12	ARG	71	39.754	4.459	18.455	0.4494	1.300	H
ATOM	22	NH2	ARG	71	40.482	3.712	21.492	-0.8693	1.550	N
ATOM	23	HH21	ARG	71	41.160	2.988	21.312	0.4494	1.300	H
ATOM	24	HH22	ARG	71	40.276	3.982	22.443	0.4494	1.300	H
ATOM	25	C	ARG	71	34.475	7.896	20.249	0.7214	1.700	C
ATOM	26	O	ARG	71	35.268	8.665	20.789	-0.6013	1.500	O
ATOM	27	N	PRO	72	33.332	7.531	20.826	-0.2548	1.550	N
ATOM	28	CD	PRO	72	32.547	6.388	20.351	0.0192	1.700	C
ATOM	29	HD2	PRO	72	33.009	5.452	20.671	0.0391	1.200	H
ATOM	30	HD3	PRO	72	32.384	6.401	19.273	0.0391	1.200	H
ATOM	31	CG	PRO	72	31.241	6.596	21.042	0.0189	1.700	C
ATOM	32	HG2	PRO	72	30.657	5.675	21.081	0.0213	1.200	H
ATOM	33	HG3	PRO	72	30.675	7.389	20.550	0.0213	1.200	H
ATOM	34	CB	PRO	72	31.660	7.027	22.386	-0.0070	1.700	C
ATOM	35	HB2	PRO	72	32.008	6.162	22.956	0.0253	1.200	H
ATOM	36	HB3	PRO	72	30.848	7.523	22.919	0.0253	1.200	H
ATOM	37	CA	PRO	72	32.823	7.992	22.115	-0.0266	1.700	C
ATOM	38	HA	PRO	72	32.437	9.006	22.000	0.0641	1.200	H
ATOM	39	C	PRO	72	33.827	7.941	23.257	0.5896	1.700	C
ATOM	40	O	PRO	72	34.847	7.249	23.203	-0.5748	1.500	O
ATOM	41	N	GLN	73	33.553	8.728	24.280	-0.4157	1.550	N
ATOM	42	H	GLN	73	32.696	9.260	24.314	0.2719	1.300	H
ATOM	43	CA	GLN	73	34.396	8.707	25.436	-0.0031	1.700	C
ATOM	44	HA	GLN	73	35.445	8.576	25.162	0.0850	1.200	H
ATOM	45	CB	GLN	73	34.219	9.983	26.261	-0.0036	1.700	C
ATOM	46	HB2	GLN	73	34.505	10.812	25.613	0.0171	1.200	H

ATOM	47	HB3	GLN	73	33.168	10.140	26.508	0.0171	1.200	H
ATOM	48	CG	GLN	73	35.100	10.083	27.499	-0.0645	1.700	C
ATOM	49	HG2	GLN	73	35.841	9.414	27.163	0.0352	1.200	H
ATOM	50	HG3	GLN	73	35.449	11.090	27.729	0.0352	1.200	H
ATOM	51	CD	GLN	73	34.502	9.358	28.679	0.6951	1.700	C
ATOM	52	OE1	GLN	73	33.277	9.271	28.804	-0.6086	1.500	O
ATOM	53	NE2	GLN	73	35.351	8.816	29.547	-0.9407	1.550	N
ATOM	54	HE21	GLN	73	34.973	8.286	30.316	0.4251	1.300	H
ATOM	55	HE22	GLN	73	36.344	8.836	29.378	0.4251	1.300	H
ATOM	56	C	GLN	73	33.842	7.480	26.147	0.5973	1.700	C
ATOM	57	O	GLN	73	32.634	7.368	26.380	-0.5679	1.500	O
ATOM	58	N	VAL	74	34.722	6.508	26.342	-0.4157	1.550	N
ATOM	59	H	VAL	74	35.682	6.670	26.071	0.2719	1.300	H
ATOM	60	CA	VAL	74	34.434	5.244	27.006	-0.0875	1.700	C
ATOM	61	HA	VAL	74	33.795	4.674	26.334	0.0969	1.200	H
ATOM	62	CB	VAL	74	35.766	4.511	27.204	0.2985	1.700	C
ATOM	63	HB	VAL	74	36.596	5.196	27.068	-0.0297	1.200	H
ATOM	64	CG1	VAL	74	35.919	3.994	28.578	-0.3192	1.700	C
ATOM	65	HG11	VAL	74	36.881	3.492	28.641	0.0791	1.200	H
ATOM	66	HG12	VAL	74	35.934	4.814	29.291	0.0791	1.200	H
ATOM	67	HG13	VAL	74	35.178	3.245	28.837	0.0791	1.200	H
ATOM	68	CG2	VAL	74	35.915	3.441	26.190	-0.3192	1.700	C
ATOM	69	HG21	VAL	74	36.837	2.885	26.354	0.0791	1.200	H
ATOM	70	HG22	VAL	74	35.078	2.745	26.251	0.0791	1.200	H
ATOM	71	HG23	VAL	74	35.944	3.882	25.194	0.0791	1.200	H
ATOM	72	C	VAL	74	33.700	5.459	28.327	0.5973	1.700	C
ATOM	73	O	VAL	74	33.778	6.530	28.931	-0.5679	1.500	O
ATOM	74	N	PRO	75	32.917	4.466	28.766	-0.2548	1.550	N
ATOM	75	CD	PRO	75	32.541	3.205	28.104	0.0192	1.700	C
ATOM	76	HD2	PRO	75	33.280	2.428	28.296	0.0391	1.200	H
ATOM	77	HD3	PRO	75	32.374	3.330	27.035	0.0391	1.200	H
ATOM	78	CG	PRO	75	31.249	2.860	28.783	0.0189	1.700	C
ATOM	79	HG2	PRO	75	31.039	1.792	28.719	0.0213	1.200	H
ATOM	80	HG3	PRO	75	30.432	3.437	28.344	0.0213	1.200	H
ATOM	81	CB	PRO	75	31.479	3.295	30.200	-0.0070	1.700	C
ATOM	82	HB2	PRO	75	32.126	2.573	30.703	0.0253	1.200	H
ATOM	83	HB3	PRO	75	30.540	3.408	30.744	0.0253	1.200	H
ATOM	84	CA	PRO	75	32.196	4.638	30.037	-0.0266	1.700	C
ATOM	85	HA	PRO	75	31.471	5.448	29.946	0.0641	1.200	H
ATOM	86	C	PRO	75	33.159	4.884	31.206	0.5896	1.700	C
ATOM	87	O	PRO	75	34.291	4.403	31.200	-0.5748	1.500	O
ATOM	88	N	LEU	76	32.736	5.651	32.198	-0.4157	1.550	N
ATOM	89	H	LEU	76	31.817	6.066	32.182	0.2719	1.300	H
ATOM	90	CA	LEU	76	33.609	5.875	33.341	-0.0518	1.700	C
ATOM	91	HA	LEU	76	34.586	6.205	32.992	0.0922	1.200	H
ATOM	92	CB	LEU	76	33.031	6.939	34.281	-0.1102	1.700	C
ATOM	93	HB2	LEU	76	33.171	7.897	33.776	0.0457	1.200	H
ATOM	94	HB3	LEU	76	31.953	6.792	34.376	0.0457	1.200	H
ATOM	95	CG	LEU	76	33.642	7.022	35.688	0.3531	1.700	C
ATOM	96	HG	LEU	76	34.714	6.837	35.619	-0.0361	1.200	H
ATOM	97	CD1	LEU	76	33.493	8.418	36.236	-0.4121	1.700	C
ATOM	98	HD11	LEU	76	33.952	8.479	37.224	0.1000	1.200	H
ATOM	99	HD12	LEU	76	33.998	9.128	35.580	0.1000	1.200	H
ATOM	100	HD13	LEU	76	32.437	8.684	36.309	0.1000	1.200	H
ATOM	101	CD2	LEU	76	33.005	5.992	36.644	-0.4121	1.700	C
ATOM	102	HD21	LEU	76	32.325	5.315	36.129	0.1000	1.200	H
ATOM	103	HD22	LEU	76	33.787	5.415	37.137	0.1000	1.200	H
ATOM	104	HD23	LEU	76	32.426	6.496	37.419	0.1000	1.200	H
ATOM	105	C	LEU	76	33.736	4.554	34.084	0.5973	1.700	C
ATOM	106	O	LEU	76	32.845	3.714	33.996	-0.5679	1.500	O
ATOM	107	N	ARG	77	34.845	4.366	34.794	-0.3479	1.550	N
ATOM	108	H	ARG	77	35.557	5.082	34.805	0.2747	1.300	H
ATOM	109	CA	ARG	77	35.068	3.170	35.596	-0.2637	1.700	C
ATOM	110	HA	ARG	77	34.117	2.946	36.074	0.1560	1.200	H
ATOM	111	CB	ARG	77	35.475	1.957	34.764	-0.0007	1.700	C
ATOM	112	HB2	ARG	77	35.658	1.131	35.454	0.0327	1.200	H
ATOM	113	HB3	ARG	77	34.624	1.675	34.140	0.0327	1.200	H
ATOM	114	CG	ARG	77	36.658	2.121	33.894	0.0390	1.700	C
ATOM	115	HG2	ARG	77	36.447	2.866	33.125	0.0285	1.200	H
ATOM	116	HG3	ARG	77	37.526	2.431	34.468	0.0285	1.200	H
ATOM	117	CD	ARG	77	36.946	0.799	33.248	0.0486	1.700	C
ATOM	118	HD2	ARG	77	37.274	0.096	34.016	0.0687	1.200	H
ATOM	119	HD3	ARG	77	36.034	0.419	32.783	0.0687	1.200	H
ATOM	120	NE	ARG	77	37.967	0.912	32.222	-0.5295	1.550	N
ATOM	121	HE	ARG	77	38.277	1.840	31.989	0.3456	1.300	H
ATOM	122	CZ	ARG	77	38.522	-0.124	31.611	0.8076	1.700	C
ATOM	123	NH1	ARG	77	38.156	-1.349	31.951	-0.8627	1.550	N

ATOM	124	HH11	ARG	77	37.516	-1.485	32.718	0.4478	1.300	H
ATOM	125	HH12	ARG	77	38.518	-2.142	31.443	0.4478	1.300	H
ATOM	126	NH2	ARG	77	39.399	0.062	30.625	-0.8627	1.550	N
ATOM	127	HH21	ARG	77	39.627	1.000	30.328	0.4478	1.300	H
ATOM	128	HH22	ARG	77	39.810	-0.725	30.146	0.4478	1.300	H
ATOM	129	C	ARG	77	36.117	3.520	36.611	0.7341	1.700	C
ATOM	130	O	ARG	77	37.108	4.165	36.281	-0.5894	1.500	O
ATOM	131	N	PRO	78	35.871	3.165	37.884	-0.2548	1.550	N
ATOM	132	CD	PRO	78	34.751	2.310	38.314	0.0192	1.700	C
ATOM	133	HD2	PRO	78	34.511	1.532	37.589	0.0391	1.200	H
ATOM	134	HD3	PRO	78	33.875	2.920	38.542	0.0391	1.200	H
ATOM	135	CG	PRO	78	35.297	1.666	39.568	0.0189	1.700	C
ATOM	136	HG2	PRO	78	35.995	0.865	39.316	0.0213	1.200	H
ATOM	137	HG3	PRO	78	34.495	1.292	40.205	0.0213	1.200	H
ATOM	138	CB	PRO	78	36.012	2.811	40.199	-0.0070	1.700	C
ATOM	139	HB2	PRO	78	36.690	2.479	40.986	0.0253	1.200	H
ATOM	140	HB3	PRO	78	35.291	3.527	40.600	0.0253	1.200	H
ATOM	141	CA	PRO	78	36.767	3.430	39.014	-0.0266	1.700	C
ATOM	142	HA	PRO	78	36.825	4.509	39.167	0.0641	1.200	H
ATOM	143	C	PRO	78	38.187	2.880	38.889	0.5896	1.700	C
ATOM	144	O	PRO	78	38.435	1.850	38.253	-0.5748	1.500	O
ATOM	145	N	MET	79	39.118	3.619	39.468	-0.4157	1.550	N
ATOM	146	H	MET	79	38.853	4.458	39.963	0.2719	1.300	H
ATOM	147	CA	MET	79	40.520	3.241	39.484	-0.0237	1.700	C
ATOM	148	HA	MET	79	40.799	2.823	38.516	0.0880	1.200	H
ATOM	149	CB	MET	79	41.367	4.476	39.832	0.0342	1.700	C
ATOM	150	HB2	MET	79	41.179	5.245	39.082	0.0241	1.200	H
ATOM	151	HB3	MET	79	41.029	4.876	40.789	0.0241	1.200	H
ATOM	152	CG	MET	79	42.844	4.247	39.932	0.0018	1.700	C
ATOM	153	HG2	MET	79	43.368	5.191	40.083	0.0440	1.200	H
ATOM	154	HG3	MET	79	43.059	3.576	40.764	0.0440	1.200	H
ATOM	155	SD	MET	79	43.341	3.512	38.455	-0.2737	1.800	S
ATOM	156	CE	MET	79	43.517	4.874	37.383	-0.0536	1.700	C
ATOM	157	HE1	MET	79	43.695	4.515	36.370	0.0684	1.200	H
ATOM	158	HE2	MET	79	42.618	5.488	37.392	0.0684	1.200	H
ATOM	159	HE3	MET	79	44.370	5.465	37.708	0.0684	1.200	H
ATOM	160	C	MET	79	40.640	2.192	40.590	0.5973	1.700	C
ATOM	161	O	MET	79	39.912	2.223	41.581	-0.5679	1.500	O
ATOM	162	N	THR	80	41.526	1.238	40.417	-0.4157	1.550	N
ATOM	163	H	THR	80	42.127	1.232	39.606	0.2719	1.300	H
ATOM	164	CA	THR	80	41.703	0.217	41.433	-0.0389	1.700	C
ATOM	165	HA	THR	80	41.502	0.596	42.437	0.1007	1.200	H
ATOM	166	CB	THR	80	40.831	-1.009	41.131	0.3654	1.700	C
ATOM	167	HB	THR	80	41.136	-1.837	41.771	0.0043	1.200	H
ATOM	168	CG2	THR	80	39.387	-0.698	41.388	-0.2438	1.700	C
ATOM	169	HG21	THR	80	38.813	-1.623	41.341	0.0642	1.200	H
ATOM	170	HG22	THR	80	39.263	-0.270	42.383	0.0642	1.200	H
ATOM	171	HG23	THR	80	38.990	-0.016	40.636	0.0642	1.200	H
ATOM	172	OG1	THR	80	40.981	-1.382	39.750	-0.6761	1.500	O
ATOM	173	HG1	THR	80	40.597	-0.684	39.213	0.4102	1.200	H
ATOM	174	C	THR	80	43.158	-0.165	41.332	0.5973	1.700	C
ATOM	175	O	THR	80	43.786	0.094	40.293	-0.5679	1.500	O
ATOM	176	N	TYR	81	43.702	-0.755	42.393	-0.4157	1.550	N
ATOM	177	H	TYR	81	43.144	-0.924	43.217	0.2719	1.300	H
ATOM	178	CA	TYR	81	45.097	-1.188	42.402	-0.0014	1.700	C
ATOM	179	HA	TYR	81	45.754	-0.325	42.510	0.0876	1.200	H
ATOM	180	CB	TYR	81	45.318	-2.156	43.561	-0.0152	1.700	C
ATOM	181	HB2	TYR	81	45.188	-1.607	44.495	0.0295	1.200	H
ATOM	182	HB3	TYR	81	44.549	-2.932	43.538	0.0295	1.200	H
ATOM	183	CG	TYR	81	46.674	-2.814	43.585	-0.0011	1.700	C
ATOM	184	CD1	TYR	81	47.802	-2.133	44.032	-0.1906	1.700	C
ATOM	185	HD1	TYR	81	47.710	-1.117	44.387	0.1699	1.200	H
ATOM	186	CE1	TYR	81	49.057	-2.732	43.996	-0.2341	1.700	C
ATOM	187	HE1	TYR	81	49.922	-2.184	44.337	0.1656	1.200	H
ATOM	188	CZ	TYR	81	49.177	-4.017	43.510	0.3226	1.700	C
ATOM	189	OH	TYR	81	50.393	-4.636	43.409	-0.5579	1.500	O
ATOM	190	HH	TYR	81	51.106	-4.111	43.790	0.3992	1.200	H
ATOM	191	CE2	TYR	81	48.072	-4.704	43.074	-0.2341	1.700	C
ATOM	192	HE2	TYR	81	48.178	-5.709	42.691	0.1656	1.200	H
ATOM	193	CD2	TYR	81	46.834	-4.111	43.115	-0.1906	1.700	C
ATOM	194	HD2	TYR	81	45.979	-4.663	42.753	0.1699	1.200	H
ATOM	195	C	TYR	81	45.374	-1.871	41.076	0.5973	1.700	C
ATOM	196	O	TYR	81	46.214	-1.430	40.282	-0.5679	1.500	O
ATOM	197	N	LYS	82	44.551	-2.856	40.764	-0.3479	1.550	N
ATOM	198	H	LYS	82	43.845	-3.156	41.419	0.2747	1.300	H
ATOM	199	CA	LYS	82	44.727	-3.573	39.532	-0.2400	1.700	C
ATOM	200	HA	LYS	82	45.705	-4.058	39.572	0.1426	1.200	H

ATOM	201	CB	LYS	82	43.679	-4.659	39.389	-0.0094	1.700	C
ATOM	202	HB2	LYS	82	43.675	-5.289	40.280	0.0362	1.200	H
ATOM	203	HB3	LYS	82	42.700	-4.184	39.299	0.0362	1.200	H
ATOM	204	CG	LYS	82	43.944	-5.522	38.184	0.0187	1.700	C
ATOM	205	HG2	LYS	82	44.236	-4.912	37.336	0.0103	1.200	H
ATOM	206	HG3	LYS	82	44.763	-6.210	38.399	0.0103	1.200	H
ATOM	207	CD	LYS	82	42.720	-6.303	37.736	-0.0479	1.700	C
ATOM	208	HD2	LYS	82	42.511	-7.114	38.435	0.0621	1.200	H
ATOM	209	HD3	LYS	82	41.867	-5.622	37.716	0.0621	1.200	H
ATOM	210	CE	LYS	82	42.931	-6.855	36.336	-0.0143	1.700	C
ATOM	211	HE2	LYS	82	43.457	-6.122	35.743	0.1135	1.200	H
ATOM	212	HE3	LYS	82	43.523	-7.770	36.378	0.1135	1.200	H
ATOM	213	NZ	LYS	82	41.613	-7.103	35.701	-0.3854	1.550	N
ATOM	214	HZ1	LYS	82	41.095	-6.238	35.657	0.3400	1.300	H
ATOM	215	HZ2	LYS	82	41.758	-7.444	34.761	0.3400	1.300	H
ATOM	216	HZ3	LYS	82	41.099	-7.786	36.237	0.3400	1.300	H
ATOM	217	C	LYS	82	44.722	-2.671	38.312	0.7341	1.700	C
ATOM	218	O	LYS	82	45.554	-2.822	37.421	-0.5894	1.500	O
ATOM	219	N	ALA	83	43.802	-1.724	38.238	-0.4157	1.550	N
ATOM	220	H	ALA	83	43.144	-1.576	38.989	0.2719	1.300	H
ATOM	221	CA	ALA	83	43.781	-0.854	37.059	0.0337	1.700	C
ATOM	222	HA	ALA	83	43.771	-1.486	36.169	0.0823	1.200	H
ATOM	223	CB	ALA	83	42.515	0.001	37.014	-0.1825	1.700	C
ATOM	224	HB1	ALA	83	42.573	0.671	36.158	0.0603	1.200	H
ATOM	225	HB2	ALA	83	41.636	-0.637	36.925	0.0603	1.200	H
ATOM	226	HB3	ALA	83	42.440	0.603	37.917	0.0603	1.200	H
ATOM	227	C	ALA	83	45.027	0.019	36.990	0.5973	1.700	C
ATOM	228	O	ALA	83	45.526	0.276	35.896	-0.5679	1.500	O
ATOM	229	N	ALA	84	45.550	0.456	38.137	-0.4157	1.550	N
ATOM	230	H	ALA	84	45.141	0.198	39.023	0.2719	1.300	H
ATOM	231	CA	ALA	84	46.746	1.294	38.127	0.0337	1.700	C
ATOM	232	HA	ALA	84	46.603	2.115	37.422	0.0823	1.200	H
ATOM	233	CB	ALA	84	47.015	1.880	39.491	-0.1825	1.700	C
ATOM	234	HB1	ALA	84	47.893	2.517	39.440	0.0603	1.200	H
ATOM	235	HB2	ALA	84	46.165	2.493	39.793	0.0603	1.200	H
ATOM	236	HB3	ALA	84	47.148	1.090	40.223	0.0603	1.200	H
ATOM	237	C	ALA	84	47.914	0.445	37.664	0.5973	1.700	C
ATOM	238	O	ALA	84	48.686	0.872	36.793	-0.5679	1.500	O
ATOM	239	N	VAL	85	48.024	-0.774	38.204	-0.4157	1.550	N
ATOM	240	H	VAL	85	47.358	-1.081	38.895	0.2719	1.300	H
ATOM	241	CA	VAL	85	49.091	-1.708	37.790	-0.0875	1.700	C
ATOM	242	HA	VAL	85	50.049	-1.206	37.930	0.0969	1.200	H
ATOM	243	CB	VAL	85	49.111	-3.018	38.622	0.2985	1.700	C
ATOM	244	HB	VAL	85	48.143	-3.517	38.551	-0.0297	1.200	H
ATOM	245	CG1	VAL	85	50.177	-3.932	38.097	-0.3192	1.700	C
ATOM	246	HG11	VAL	85	50.278	-4.796	38.753	0.0791	1.200	H
ATOM	247	HG12	VAL	85	49.914	-4.309	37.110	0.0791	1.200	H
ATOM	248	HG13	VAL	85	51.135	-3.413	38.051	0.0791	1.200	H
ATOM	249	CG2	VAL	85	49.400	-2.713	40.063	-0.3192	1.700	C
ATOM	250	HG21	VAL	85	49.413	-3.638	40.637	0.0791	1.200	H
ATOM	251	HG22	VAL	85	50.371	-2.227	40.157	0.0791	1.200	H
ATOM	252	HG23	VAL	85	48.638	-2.063	40.484	0.0791	1.200	H
ATOM	253	C	VAL	85	48.968	-2.050	36.301	0.5973	1.700	C
ATOM	254	O	VAL	85	49.970	-2.095	35.577	-0.5679	1.500	O
ATOM	255	N	ASP	86	47.749	-2.260	35.827	-0.5163	1.550	N
ATOM	256	H	ASP	86	46.944	-2.215	36.430	0.2936	1.300	H
ATOM	257	CA	ASP	86	47.571	-2.555	34.429	0.0381	1.700	C
ATOM	258	HA	ASP	86	48.243	-3.372	34.158	0.0880	1.200	H
ATOM	259	CB	ASP	86	46.146	-3.013	34.159	-0.0303	1.700	C
ATOM	260	HB2	ASP	86	45.440	-2.298	34.584	-0.0122	1.200	H
ATOM	261	HB3	ASP	86	45.987	-3.044	33.080	-0.0122	1.200	H
ATOM	262	CG	ASP	86	45.865	-4.406	34.709	0.7994	1.700	C
ATOM	263	OD1	ASP	86	46.821	-5.094	35.122	-0.8014	1.500	O
ATOM	264	OD2	ASP	86	44.687	-4.832	34.721	-0.8014	1.500	O
ATOM	265	C	ASP	86	47.956	-1.375	33.546	0.5366	1.700	C
ATOM	266	O	ASP	86	48.619	-1.567	32.532	-0.5819	1.500	O
ATOM	267	N	LEU	87	47.577	-0.155	33.921	-0.4157	1.550	N
ATOM	268	H	LEU	87	47.051	-0.026	34.773	0.2719	1.300	H
ATOM	269	CA	LEU	87	47.928	1.014	33.120	-0.0518	1.700	C
ATOM	270	HA	LEU	87	47.546	0.871	32.111	0.0922	1.200	H
ATOM	271	CB	LEU	87	47.331	2.300	33.691	-0.1102	1.700	C
ATOM	272	HB2	LEU	87	47.467	2.259	34.773	0.0457	1.200	H
ATOM	273	HB3	LEU	87	47.970	3.117	33.349	0.0457	1.200	H
ATOM	274	CG	LEU	87	45.901	2.781	33.425	0.3531	1.700	C
ATOM	275	HG	LEU	87	45.197	2.022	33.768	-0.0361	1.200	H
ATOM	276	CD1	LEU	87	45.671	4.062	34.218	-0.4121	1.700	C
ATOM	277	HD11	LEU	87	44.653	4.413	34.057	0.1000	1.200	H

ATOM	278	HD12	LEU	87	45.807	3.870	35.282	0.1000	1.200	H
ATOM	279	HD13	LEU	87	46.369	4.838	33.902	0.1000	1.200	H
ATOM	280	CD2	LEU	87	45.677	3.022	31.935	-0.4121	1.700	C
ATOM	281	HD21	LEU	87	44.661	3.381	31.772	0.1000	1.200	H
ATOM	282	HD22	LEU	87	46.384	3.765	31.562	0.1000	1.200	H
ATOM	283	HD23	LEU	87	45.805	2.092	31.381	0.1000	1.200	H
ATOM	284	C	LEU	87	49.433	1.193	33.036	0.5973	1.700	C
ATOM	285	O	LEU	87	49.952	1.571	31.985	-0.5679	1.500	O
ATOM	286	N	SER	88	50.133	0.951	34.147	-0.4157	1.550	N
ATOM	287	H	SER	88	49.655	0.648	34.984	0.2719	1.300	H
ATOM	288	CA	SER	88	51.587	1.096	34.187	-0.0249	1.700	C
ATOM	289	HA	SER	88	51.841	2.140	33.998	0.0843	1.200	H
ATOM	290	CB	SER	88	52.129	0.703	35.555	0.2117	1.700	C
ATOM	291	HB2	SER	88	51.942	-0.352	35.754	0.0352	1.200	H
ATOM	292	HB3	SER	88	53.198	0.886	35.567	0.0352	1.200	H
ATOM	293	OG	SER	88	51.550	1.485	36.587	-0.6546	1.500	O
ATOM	294	HG	SER	88	50.623	1.234	36.670	0.4275	1.200	H
ATOM	295	C	SER	88	52.247	0.236	33.133	0.5973	1.700	C
ATOM	296	O	SER	88	53.043	0.714	32.337	-0.5679	1.500	O
ATOM	297	N	HIS	89	51.893	-1.041	33.105	-0.4157	1.550	N
ATOM	298	H	HIS	89	51.213	-1.403	33.761	0.2719	1.300	H
ATOM	299	CA	HIS	89	52.499	-1.951	32.144	0.0188	1.700	C
ATOM	300	HA	HIS	89	53.579	-1.795	32.156	0.0881	1.200	H
ATOM	301	CB	HIS	89	52.245	-3.418	32.540	-0.0462	1.700	C
ATOM	302	HB2	HIS	89	51.168	-3.591	32.594	0.0402	1.200	H
ATOM	303	HB3	HIS	89	52.649	-4.064	31.760	0.0402	1.200	H
ATOM	304	CG	HIS	89	52.881	-3.811	33.846	-0.0266	1.700	C
ATOM	305	ND1	HIS	89	52.168	-4.364	34.888	-0.3811	1.550	N
ATOM	306	HD1	HIS	89	51.181	-4.579	34.868	0.3649	1.300	H
ATOM	307	CE1	HIS	89	52.971	-4.550	35.922	0.2057	1.700	C
ATOM	308	HE1	HIS	89	52.688	-4.974	36.875	0.1392	1.200	H
ATOM	309	NE2	HIS	89	54.183	-4.143	35.588	-0.5727	1.550	N
ATOM	310	CD2	HIS	89	54.156	-3.681	34.293	0.1292	1.700	C
ATOM	311	HD2	HIS	89	54.987	-3.264	33.743	0.1147	1.200	H
ATOM	312	C	HIS	89	52.016	-1.644	30.744	0.5973	1.700	C
ATOM	313	O	HIS	89	52.742	-1.826	29.773	-0.5679	1.500	O
ATOM	314	N	PHE	90	50.804	-1.129	30.639	-0.4157	1.550	N
ATOM	315	H	PHE	90	50.236	-0.998	31.464	0.2719	1.300	H
ATOM	316	CA	PHE	90	50.251	-0.785	29.338	-0.0024	1.700	C
ATOM	317	HA	PHE	90	50.300	-1.653	28.679	0.0978	1.200	H
ATOM	318	CB	PHE	90	48.788	-0.374	29.498	-0.0343	1.700	C
ATOM	319	HB2	PHE	90	48.213	-1.251	29.798	0.0295	1.200	H
ATOM	320	HB3	PHE	90	48.693	0.358	30.291	0.0295	1.200	H
ATOM	321	CG	PHE	90	48.177	0.196	28.262	0.0118	1.700	C
ATOM	322	CD1	PHE	90	47.789	-0.628	27.225	-0.1256	1.700	C
ATOM	323	HD1	PHE	90	47.935	-1.697	27.302	0.1330	1.200	H
ATOM	324	CE1	PHE	90	47.214	-0.096	26.080	-0.1704	1.700	C
ATOM	325	HE1	PHE	90	46.925	-0.750	25.270	0.1430	1.200	H
ATOM	326	CZ	PHE	90	47.027	1.275	25.972	-0.1072	1.700	C
ATOM	327	HZ	PHE	90	46.571	1.688	25.085	0.1297	1.200	H
ATOM	328	CE2	PHE	90	47.412	2.106	27.006	-0.1704	1.700	C
ATOM	329	HE2	PHE	90	47.270	3.166	26.965	0.1430	1.200	H
ATOM	330	CD2	PHE	90	47.982	1.567	28.141	-0.1256	1.700	C
ATOM	331	HD2	PHE	90	48.269	2.223	28.949	0.1330	1.200	H
ATOM	332	C	PHE	90	51.073	0.344	28.731	0.5973	1.700	C
ATOM	333	O	PHE	90	51.577	0.221	27.620	-0.5679	1.500	O
ATOM	334	N	LEU	91	51.240	1.426	29.486	-0.4157	1.550	N
ATOM	335	H	LEU	91	50.822	1.453	30.403	0.2719	1.300	H
ATOM	336	CA	LEU	91	52.002	2.591	29.040	-0.0518	1.700	C
ATOM	337	HA	LEU	91	51.642	2.881	28.054	0.0922	1.200	H
ATOM	338	CB	LEU	91	51.807	3.761	30.016	-0.1102	1.700	C
ATOM	339	HB2	LEU	91	52.077	3.407	31.013	0.0457	1.200	H
ATOM	340	HB3	LEU	91	52.509	4.555	29.757	0.0457	1.200	H
ATOM	341	CG	LEU	91	50.397	4.362	30.068	0.3531	1.700	C
ATOM	342	HG	LEU	91	49.671	3.560	30.192	-0.0361	1.200	H
ATOM	343	CD1	LEU	91	50.259	5.278	31.251	-0.4121	1.700	C
ATOM	344	HD11	LEU	91	49.240	5.659	31.306	0.1000	1.200	H
ATOM	345	HD12	LEU	91	50.456	4.690	32.145	0.1000	1.200	H
ATOM	346	HD13	LEU	91	50.954	6.110	31.168	0.1000	1.200	H
ATOM	347	CD2	LEU	91	50.092	5.085	28.758	-0.4121	1.700	C
ATOM	348	HD21	LEU	91	49.082	5.499	28.805	0.1000	1.200	H
ATOM	349	HD22	LEU	91	50.806	5.900	28.604	0.1000	1.200	H
ATOM	350	HD23	LEU	91	50.140	4.393	27.915	0.1000	1.200	H
ATOM	351	C	LEU	91	53.476	2.261	28.887	0.5973	1.700	C
ATOM	352	O	LEU	91	54.207	2.948	28.177	-0.5679	1.500	O
ATOM	353	N	LYS	92	53.932	1.232	29.585	-0.3479	1.550	N
ATOM	354	H	LYS	92	53.314	0.706	30.188	0.2747	1.300	H

ATOM	355	CA	LYS	92	55.321	0.827	29.463	-0.2400	1.700	C
ATOM	356	HA	LYS	92	55.957	1.714	29.479	0.1426	1.200	H
ATOM	357	CB	LYS	92	55.717	-0.093	30.634	-0.0094	1.700	C
ATOM	358	HB2	LYS	92	55.187	0.206	31.529	0.0362	1.200	H
ATOM	359	HB3	LYS	92	55.436	-1.121	30.398	0.0362	1.200	H
ATOM	360	CG	LYS	92	57.203	-0.021	31.013	0.0187	1.700	C
ATOM	361	HG2	LYS	92	57.778	-0.165	30.097	0.0103	1.200	H
ATOM	362	HG3	LYS	92	57.439	0.966	31.413	0.0103	1.200	H
ATOM	363	CD	LYS	92	57.611	-1.098	32.019	-0.0479	1.700	C
ATOM	364	HD2	LYS	92	57.471	-0.727	33.028	0.0621	1.200	H
ATOM	365	HD3	LYS	92	56.985	-1.982	31.888	0.0621	1.200	H
ATOM	366	CE	LYS	92	59.076	-1.536	31.827	-0.0143	1.700	C
ATOM	367	HE2	LYS	92	59.302	-2.320	32.551	0.1135	1.200	H
ATOM	368	HE3	LYS	92	59.187	-1.952	30.825	0.1135	1.200	H
ATOM	369	NZ	LYS	92	60.049	-0.418	32.000	-0.3854	1.550	N
ATOM	370	HZ1	LYS	92	59.959	-0.034	32.931	0.3400	1.300	H
ATOM	371	HZ2	LYS	92	60.991	-0.756	31.860	0.3400	1.300	H
ATOM	372	HZ3	LYS	92	59.853	0.314	31.330	0.3400	1.300	H
ATOM	373	C	LYS	92	55.449	0.125	28.096	0.7341	1.700	C
ATOM	374	O	LYS	92	56.385	0.378	27.345	-0.5894	1.500	O
ATOM	375	N	GLU	93	54.466	-0.711	27.760	-0.5163	1.550	N
ATOM	376	H	GLU	93	53.702	-0.865	28.403	0.2936	1.300	H
ATOM	377	CA	GLU	93	54.450	-1.420	26.480	0.0397	1.700	C
ATOM	378	HA	GLU	93	55.304	-2.095	26.412	0.1105	1.200	H
ATOM	379	CB	GLU	93	53.139	-2.213	26.292	0.0560	1.700	C
ATOM	380	HB2	GLU	93	52.283	-1.555	26.322	-0.0173	1.200	H
ATOM	381	HB3	GLU	93	53.149	-2.630	25.283	-0.0173	1.200	H
ATOM	382	CG	GLU	93	52.915	-3.387	27.270	0.0136	1.700	C
ATOM	383	HG2	GLU	93	53.443	-4.236	26.832	-0.0425	1.200	H
ATOM	384	HG3	GLU	93	53.421	-3.267	28.214	-0.0425	1.200	H
ATOM	385	CD	GLU	93	51.429	-3.834	27.400	0.8054	1.700	C
ATOM	386	OE1	GLU	93	50.630	-3.635	26.446	-0.8188	1.500	O
ATOM	387	OE2	GLU	93	51.061	-4.392	28.467	-0.8188	1.500	O
ATOM	388	C	GLU	93	54.556	-0.338	25.405	0.5366	1.700	C
ATOM	389	O	GLU	93	55.489	-0.337	24.608	-0.5819	1.500	O
ATOM	390	N	LYS	94	53.612	0.602	25.409	-0.3479	1.550	N
ATOM	391	H	LYS	94	52.869	0.551	26.093	0.2747	1.300	H
ATOM	392	CA	LYS	94	53.605	1.710	24.455	-0.2400	1.700	C
ATOM	393	HA	LYS	94	53.877	1.361	23.458	0.1426	1.200	H
ATOM	394	CB	LYS	94	52.225	2.369	24.435	-0.0094	1.700	C
ATOM	395	HB2	LYS	94	51.495	1.658	24.044	0.0362	1.200	H
ATOM	396	HB3	LYS	94	51.933	2.650	25.450	0.0362	1.200	H
ATOM	397	CG	LYS	94	52.266	3.608	23.548	0.0187	1.700	C
ATOM	398	HG2	LYS	94	52.913	4.458	23.706	0.0103	1.200	H
ATOM	399	HG3	LYS	94	52.488	3.270	22.534	0.0103	1.200	H
ATOM	400	CD	LYS	94	50.890	4.266	23.528	-0.0479	1.700	C
ATOM	401	HD2	LYS	94	50.151	3.561	23.144	0.0621	1.200	H
ATOM	402	HD3	LYS	94	50.616	4.559	24.543	0.0621	1.200	H
ATOM	403	CE	LYS	94	50.932	5.505	22.640	-0.0143	1.700	C
ATOM	404	HE2	LYS	94	51.670	6.206	23.033	0.1135	1.200	H
ATOM	405	HE3	LYS	94	51.218	5.215	21.628	0.1135	1.200	H
ATOM	406	NZ	LYS	94	49.605	6.138	22.621	-0.3854	1.550	N
ATOM	407	HZ1	LYS	94	49.634	6.961	22.036	0.3400	1.300	H
ATOM	408	HZ2	LYS	94	48.926	5.487	22.254	0.3400	1.300	H
ATOM	409	HZ3	LYS	94	49.339	6.400	23.560	0.3400	1.300	H
ATOM	410	C	LYS	94	54.634	2.708	24.958	0.7341	1.700	C
ATOM	411	O	LYS	94	54.299	3.869	25.203	-0.5894	1.500	O
ATOM	412	N	GLY	95	55.870	2.234	25.144	-0.4157	1.550	N
ATOM	413	H	GLY	95	56.075	1.273	24.934	0.2719	1.300	H
ATOM	414	CA	GLY	95	56.962	3.044	25.661	-0.0252	1.700	C
ATOM	415	HA2	GLY	95	56.933	2.982	26.750	0.0698	1.200	H
ATOM	416	HA3	GLY	95	57.905	2.606	25.332	0.0698	1.200	H
ATOM	417	C	GLY	95	56.946	4.499	25.256	0.5973	1.700	C
ATOM	418	O	GLY	95	56.684	4.812	24.094	-0.5679	1.500	O
ATOM	419	N	GLY	96	57.208	5.389	26.209	-0.4157	1.550	N
ATOM	420	H	GLY	96	57.426	5.081	27.145	0.2719	1.300	H
ATOM	421	CA	GLY	96	57.210	6.809	25.906	-0.0252	1.700	C
ATOM	422	HA2	GLY	96	58.026	7.020	25.214	0.0698	1.200	H
ATOM	423	HA3	GLY	96	56.268	7.060	25.416	0.0698	1.200	H
ATOM	424	C	GLY	96	57.355	7.708	27.118	0.5973	1.700	C
ATOM	425	O	GLY	96	57.900	8.796	27.005	-0.5679	1.500	O
ATOM	426	N	LEU	97	56.855	7.275	28.272	-0.4157	1.550	N
ATOM	427	H	LEU	97	56.387	6.382	28.318	0.2719	1.300	H
ATOM	428	CA	LEU	97	56.952	8.075	29.488	-0.0518	1.700	C
ATOM	429	HA	LEU	97	56.767	9.121	29.253	0.0922	1.200	H
ATOM	430	CB	LEU	97	55.965	7.589	30.544	-0.1102	1.700	C
ATOM	431	HB2	LEU	97	56.084	6.508	30.637	0.0457	1.200	H

ATOM	432	HB3	LEU	97	56.272	8.012	31.500	0.0457	1.200	H
ATOM	433	CG	LEU	97	54.490	7.890	30.400	0.3531	1.700	C
ATOM	434	HG	LEU	97	54.107	7.419	29.493	-0.0361	1.200	H
ATOM	435	CD1	LEU	97	53.758	7.350	31.599	-0.4121	1.700	C
ATOM	436	HD11	LEU	97	52.691	7.449	31.460	0.1000	1.200	H
ATOM	437	HD12	LEU	97	53.976	6.289	31.721	0.1000	1.200	H
ATOM	438	HD13	LEU	97	54.055	7.878	32.506	0.1000	1.200	H
ATOM	439	CD2	LEU	97	54.306	9.380	30.317	-0.4121	1.700	C
ATOM	440	HD21	LEU	97	53.256	9.602	30.164	0.1000	1.200	H
ATOM	441	HD22	LEU	97	54.640	9.849	31.230	0.1000	1.200	H
ATOM	442	HD23	LEU	97	54.829	9.795	29.461	0.1000	1.200	H
ATOM	443	C	LEU	97	58.324	8.003	30.107	0.5973	1.700	C
ATOM	444	O	LEU	97	58.735	8.899	30.841	-0.5679	1.500	O
ATOM	445	N	GLU	98	59.017	6.907	29.847	-0.5163	1.550	N
ATOM	446	H	GLU	98	58.640	6.203	29.232	0.2936	1.300	H
ATOM	447	CA	GLU	98	60.327	6.691	30.435	0.0397	1.700	C
ATOM	448	HA	GLU	98	60.143	6.601	31.505	0.1105	1.200	H
ATOM	449	CB	GLU	98	60.955	5.413	29.906	0.0560	1.700	C
ATOM	450	HB2	GLU	98	60.166	4.702	29.653	-0.0173	1.200	H
ATOM	451	HB3	GLU	98	61.514	5.603	28.989	-0.0173	1.200	H
ATOM	452	CG	GLU	98	61.855	4.770	30.922	0.0136	1.700	C
ATOM	453	HG2	GLU	98	62.240	3.833	30.516	-0.0425	1.200	H
ATOM	454	HG3	GLU	98	62.702	5.430	31.125	-0.0425	1.200	H
ATOM	455	CD	GLU	98	61.105	4.487	32.185	0.8054	1.700	C
ATOM	456	OE1	GLU	98	60.016	3.856	32.104	-0.8188	1.500	O
ATOM	457	OE2	GLU	98	61.592	4.930	33.244	-0.8188	1.500	O
ATOM	458	C	GLU	98	61.277	7.832	30.223	0.5366	1.700	C
ATOM	459	O	GLU	98	61.594	8.182	29.098	-0.5819	1.500	O
ATOM	460	N	GLY	99	61.715	8.430	31.314	-0.4157	1.550	N
ATOM	461	H	GLY	99	61.419	8.125	32.228	0.2719	1.300	H
ATOM	462	CA	GLY	99	62.634	9.530	31.192	-0.0252	1.700	C
ATOM	463	HA2	GLY	99	62.993	9.778	32.187	0.0698	1.200	H
ATOM	464	HA3	GLY	99	63.482	9.237	30.572	0.0698	1.200	H
ATOM	465	C	GLY	99	61.995	10.771	30.603	0.5973	1.700	C
ATOM	466	O	GLY	99	62.585	11.848	30.715	-0.5679	1.500	O
ATOM	467	N	LEU	100	60.809	10.651	29.995	-0.4157	1.550	N
ATOM	468	H	LEU	100	60.353	9.752	29.953	0.2719	1.300	H
ATOM	469	CA	LEU	100	60.134	11.811	29.418	-0.0518	1.700	C
ATOM	470	HA	LEU	100	60.715	12.152	28.561	0.0922	1.200	H
ATOM	471	CB	LEU	100	58.719	11.449	28.968	-0.1102	1.700	C
ATOM	472	HB2	LEU	100	58.816	10.668	28.221	0.0457	1.200	H
ATOM	473	HB3	LEU	100	58.183	11.034	29.814	0.0457	1.200	H
ATOM	474	CG	LEU	100	57.858	12.580	28.385	0.3531	1.700	C
ATOM	475	HG	LEU	100	57.769	13.381	29.118	-0.0361	1.200	H
ATOM	476	CD1	LEU	100	58.483	13.131	27.138	-0.4121	1.700	C
ATOM	477	HD11	LEU	100	57.820	13.865	26.682	0.1000	1.200	H
ATOM	478	HD12	LEU	100	59.440	13.598	27.361	0.1000	1.200	H
ATOM	479	HD13	LEU	100	58.646	12.326	26.419	0.1000	1.200	H
ATOM	480	CD2	LEU	100	56.465	12.083	28.069	-0.4121	1.700	C
ATOM	481	HD21	LEU	100	55.850	12.901	27.695	0.1000	1.200	H
ATOM	482	HD22	LEU	100	56.508	11.292	27.319	0.1000	1.200	H
ATOM	483	HD23	LEU	100	56.004	11.682	28.967	0.1000	1.200	H
ATOM	484	C	LEU	100	60.096	12.902	30.483	0.5973	1.700	C
ATOM	485	O	LEU	100	59.827	12.627	31.652	-0.5679	1.500	O
ATOM	486	N	ILE	101	60.455	14.122	30.103	-0.4157	1.550	N
ATOM	487	H	ILE	101	60.768	14.283	29.159	0.2719	1.300	H
ATOM	488	CA	ILE	101	60.466	15.225	31.057	-0.0597	1.700	C
ATOM	489	HA	ILE	101	61.033	14.912	31.932	0.0869	1.200	H
ATOM	490	CB	ILE	101	61.102	16.494	30.467	0.1303	1.700	C
ATOM	491	HB	ILE	101	60.514	16.847	29.623	0.0187	1.200	H
ATOM	492	CG2	ILE	101	61.129	17.599	31.530	-0.3204	1.700	C
ATOM	493	HG21	ILE	101	61.716	18.440	31.161	0.0882	1.200	H
ATOM	494	HG22	ILE	101	60.126	17.964	31.725	0.0882	1.200	H
ATOM	495	HG23	ILE	101	61.573	17.244	32.459	0.0882	1.200	H
ATOM	496	CG1	ILE	101	62.523	16.202	29.956	-0.0430	1.700	C
ATOM	497	HG12	ILE	101	62.514	15.349	29.278	0.0236	1.200	H
ATOM	498	HG13	ILE	101	62.870	17.057	29.374	0.0236	1.200	H
ATOM	499	CD1	ILE	101	63.531	15.944	31.055	-0.0660	1.700	C
ATOM	500	HD11	ILE	101	64.361	15.355	30.662	0.0186	1.200	H
ATOM	501	HD12	ILE	101	63.924	16.897	31.413	0.0186	1.200	H
ATOM	502	HD13	ILE	101	63.092	15.431	31.900	0.0186	1.200	H
ATOM	503	C	ILE	101	59.048	15.548	31.482	0.5973	1.700	C
ATOM	504	O	ILE	101	58.179	15.763	30.658	-0.5679	1.500	O
ATOM	505	N	HIS	102	58.806	15.531	32.780	-0.4157	1.550	N
ATOM	506	H	HIS	102	59.518	15.236	33.422	0.2719	1.300	H
ATOM	507	CA	HIS	102	57.488	15.827	33.286	-0.0581	1.700	C
ATOM	508	HA	HIS	102	56.767	15.183	32.779	0.1360	1.200	H

ATOM	509	CB	HIS	102	57.401	15.567	34.782	-0.0074	1.700	C
ATOM	510	HB2	HIS	102	57.787	14.568	34.989	0.0367	1.200	H
ATOM	511	HB3	HIS	102	58.029	16.288	35.304	0.0367	1.200	H
ATOM	512	CG	HIS	102	56.010	15.646	35.317	0.1868	1.700	C
ATOM	513	ND1	HIS	102	55.621	16.570	36.260	-0.5432	1.550	N
ATOM	514	CE1	HIS	102	54.346	16.387	36.553	0.1635	1.700	C
ATOM	515	HE1	HIS	102	53.757	16.989	37.230	0.1435	1.200	H
ATOM	516	NE2	HIS	102	53.896	15.380	35.829	-0.2795	1.550	N
ATOM	517	HE2	HIS	102	52.947	15.109	35.742	0.3339	1.300	H
ATOM	518	CD2	HIS	102	54.913	14.901	35.047	-0.2207	1.700	C
ATOM	519	HD2	HIS	102	54.863	14.083	34.352	0.1862	1.200	H
ATOM	520	C	HIS	102	57.148	17.270	33.037	0.5973	1.700	C
ATOM	521	O	HIS	102	58.019	18.128	33.043	-0.5679	1.500	O
ATOM	522	N	SER	103	55.848	17.517	32.942	-0.4157	1.550	N
ATOM	523	H	SER	103	55.209	16.739	33.032	0.2719	1.300	H
ATOM	524	CA	SER	103	55.248	18.824	32.715	-0.0249	1.700	C
ATOM	525	HA	SER	103	55.712	19.586	33.344	0.0843	1.200	H
ATOM	526	CB	SER	103	55.375	19.187	31.232	0.2117	1.700	C
ATOM	527	HB2	SER	103	56.410	19.429	30.989	0.0352	1.200	H
ATOM	528	HB3	SER	103	55.043	18.338	30.681	0.0352	1.200	H
ATOM	529	OG	SER	103	54.516	20.256	30.872	-0.6546	1.500	O
ATOM	530	HG	SER	103	54.769	20.573	30.001	0.4275	1.200	H
ATOM	531	C	SER	103	53.776	18.627	33.076	0.5973	1.700	C
ATOM	532	O	SER	103	53.125	17.704	32.569	-0.5679	1.500	O
ATOM	533	N	GLN	104	53.250	19.449	33.970	-0.4157	1.550	N
ATOM	534	H	GLN	104	53.805	20.178	34.393	0.2719	1.300	H
ATOM	535	CA	GLN	104	51.849	19.312	34.349	-0.0031	1.700	C
ATOM	536	HA	GLN	104	51.752	18.391	34.925	0.0850	1.200	H
ATOM	537	CB	GLN	104	51.399	20.499	35.188	-0.0036	1.700	C
ATOM	538	HB2	GLN	104	52.129	20.674	35.980	0.0171	1.200	H
ATOM	539	HB3	GLN	104	51.373	21.395	34.566	0.0171	1.200	H
ATOM	540	CG	GLN	104	50.040	20.303	35.814	-0.0645	1.700	C
ATOM	541	HG2	GLN	104	49.786	21.182	36.407	0.0352	1.200	H
ATOM	542	HG3	GLN	104	49.287	20.203	35.032	0.0352	1.200	H
ATOM	543	CD	GLN	104	50.023	19.094	36.709	0.6951	1.700	C
ATOM	544	OE1	GLN	104	51.010	18.806	37.388	-0.6086	1.500	O
ATOM	545	NE2	GLN	104	48.913	18.365	36.711	-0.9407	1.550	N
ATOM	546	HE21	GLN	104	48.852	17.541	37.288	0.4251	1.300	H
ATOM	547	HE22	GLN	104	48.149	18.596	36.087	0.4251	1.300	H
ATOM	548	C	GLN	104	50.967	19.203	33.102	0.5973	1.700	C
ATOM	549	O	GLN	104	50.020	18.422	33.056	-0.5679	1.500	O
ATOM	550	N	ARG	105	51.302	19.971	32.081	-0.3479	1.550	N
ATOM	551	H	ARG	105	52.099	20.586	32.161	0.2747	1.300	H
ATOM	552	CA	ARG	105	50.551	19.951	30.846	-0.2637	1.700	C
ATOM	553	HA	ARG	105	49.499	20.134	31.074	0.1560	1.200	H
ATOM	554	CB	ARG	105	51.092	21.021	29.915	-0.0007	1.700	C
ATOM	555	HB2	ARG	105	51.846	21.614	30.438	0.0327	1.200	H
ATOM	556	HB3	ARG	105	51.599	20.574	29.058	0.0327	1.200	H
ATOM	557	CG	ARG	105	50.067	21.973	29.418	0.0390	1.700	C
ATOM	558	HG2	ARG	105	49.641	22.402	30.317	0.0285	1.200	H
ATOM	559	HG3	ARG	105	50.581	22.764	28.869	0.0285	1.200	H
ATOM	560	CD	ARG	105	49.090	21.311	28.507	0.0486	1.700	C
ATOM	561	HD2	ARG	105	49.638	20.774	27.737	0.0687	1.200	H
ATOM	562	HD3	ARG	105	48.463	20.611	29.062	0.0687	1.200	H
ATOM	563	NE	ARG	105	48.260	22.318	27.866	-0.5295	1.550	N
ATOM	564	HE	ARG	105	48.247	22.338	26.858	0.3456	1.300	H
ATOM	565	CZ	ARG	105	47.517	23.201	28.522	0.8076	1.700	C
ATOM	566	NH1	ARG	105	47.486	23.208	29.845	-0.8627	1.550	N
ATOM	567	HH11	ARG	105	48.039	22.573	30.391	0.4478	1.300	H
ATOM	568	HH12	ARG	105	46.842	23.816	30.331	0.4478	1.300	H
ATOM	569	NH2	ARG	105	46.807	24.092	27.847	-0.8627	1.550	N
ATOM	570	HH21	ARG	105	46.227	24.741	28.358	0.4478	1.300	H
ATOM	571	HH22	ARG	105	46.817	24.102	26.840	0.4478	1.300	H
ATOM	572	C	ARG	105	50.684	18.595	30.168	0.7341	1.700	C
ATOM	573	O	ARG	105	49.698	18.025	29.690	-0.5894	1.500	O
ATOM	574	N	ARG	106	51.916	18.098	30.094	-0.3479	1.550	N
ATOM	575	H	ARG	106	52.682	18.590	30.530	0.2747	1.300	H
ATOM	576	CA	ARG	106	52.176	16.812	29.466	-0.2637	1.700	C
ATOM	577	HA	ARG	106	51.842	16.841	28.428	0.1560	1.200	H
ATOM	578	CB	ARG	106	53.669	16.490	29.501	-0.0007	1.700	C
ATOM	579	HB2	ARG	106	54.064	16.621	30.503	0.0327	1.200	H
ATOM	580	HB3	ARG	106	53.779	15.426	29.282	0.0327	1.200	H
ATOM	581	CG	ARG	106	54.464	17.219	28.454	0.0390	1.700	C
ATOM	582	HG2	ARG	106	54.198	16.803	27.480	0.0285	1.200	H
ATOM	583	HG3	ARG	106	54.211	18.280	28.455	0.0285	1.200	H
ATOM	584	CD	ARG	106	55.933	17.074	28.687	0.0486	1.700	C
ATOM	585	HD2	ARG	106	56.334	17.805	29.376	0.0687	1.200	H

ATOM	586	HD3	ARG	106	56.112	16.076	29.090	0.0687	1.200	H
ATOM	587	NE	ARG	106	56.670	17.218	27.442	-0.5295	1.550	N
ATOM	588	HE	ARG	106	56.208	17.693	26.681	0.3456	1.300	H
ATOM	589	CZ	ARG	106	57.883	16.714	27.229	0.8076	1.700	C
ATOM	590	NH1	ARG	106	58.506	16.045	28.187	-0.8627	1.550	N
ATOM	591	HH11	ARG	106	59.431	15.670	28.053	0.4478	1.300	H
ATOM	592	HH12	ARG	106	58.005	15.874	29.029	0.4478	1.300	H
ATOM	593	NH2	ARG	106	58.436	16.784	26.022	-0.8627	1.550	N
ATOM	594	HH21	ARG	106	59.337	16.360	25.859	0.4478	1.300	H
ATOM	595	HH22	ARG	106	57.955	17.251	25.268	0.4478	1.300	H
ATOM	596	C	ARG	106	51.379	15.734	30.179	0.7341	1.700	C
ATOM	597	O	ARG	106	50.772	14.876	29.540	-0.5894	1.500	O
ATOM	598	N	GLN	107	51.323	15.829	31.502	-0.4157	1.550	N
ATOM	599	H	GLN	107	51.795	16.582	31.977	0.2719	1.300	H
ATOM	600	CA	GLN	107	50.592	14.860	32.294	-0.0031	1.700	C
ATOM	601	HA	GLN	107	50.846	13.861	31.939	0.0850	1.200	H
ATOM	602	CB	GLN	107	50.986	14.947	33.756	-0.0036	1.700	C
ATOM	603	HB2	GLN	107	52.061	14.797	33.841	0.0171	1.200	H
ATOM	604	HB3	GLN	107	50.756	15.951	34.119	0.0171	1.200	H
ATOM	605	CG	GLN	107	50.270	13.952	34.601	-0.0645	1.700	C
ATOM	606	HG2	GLN	107	49.197	13.972	34.420	0.0352	1.200	H
ATOM	607	HG3	GLN	107	50.626	12.952	34.371	0.0352	1.200	H
ATOM	608	CD	GLN	107	50.461	14.238	36.033	0.6951	1.700	C
ATOM	609	OE1	GLN	107	51.537	14.621	36.440	-0.6086	1.500	O
ATOM	610	NE2	GLN	107	49.408	14.113	36.815	-0.9407	1.550	N
ATOM	611	HE21	GLN	107	48.533	13.773	36.436	0.4251	1.300	H
ATOM	612	HE22	GLN	107	49.473	14.339	37.795	0.4251	1.300	H
ATOM	613	C	GLN	107	49.089	15.032	32.174	0.5973	1.700	C
ATOM	614	O	GLN	107	48.376	14.036	32.098	-0.5679	1.500	O
ATOM	615	N	ASP	108	48.607	16.280	32.206	-0.5163	1.550	N
ATOM	616	H	ASP	108	49.241	17.057	32.278	0.2936	1.300	H
ATOM	617	CA	ASP	108	47.171	16.583	32.090	0.0381	1.700	C
ATOM	618	HA	ASP	108	46.624	16.092	32.897	0.0880	1.200	H
ATOM	619	CB	ASP	108	46.908	18.087	32.107	-0.0303	1.700	C
ATOM	620	HB2	ASP	108	47.607	18.604	31.448	-0.0122	1.200	H
ATOM	621	HB3	ASP	108	45.892	18.245	31.748	-0.0122	1.200	H
ATOM	622	CG	ASP	108	46.957	18.683	33.489	0.7994	1.700	C
ATOM	623	OD1	ASP	108	46.963	17.920	34.473	-0.8014	1.500	O
ATOM	624	OD2	ASP	108	46.979	19.928	33.594	-0.8014	1.500	O
ATOM	625	C	ASP	108	46.668	16.029	30.779	0.5366	1.700	C
ATOM	626	O	ASP	108	45.539	15.550	30.696	-0.5819	1.500	O
ATOM	627	N	ILE	109	47.506	16.123	29.753	-0.4157	1.550	N
ATOM	628	H	ILE	109	48.412	16.547	29.893	0.2719	1.300	H
ATOM	629	CA	ILE	109	47.181	15.605	28.442	-0.0597	1.700	C
ATOM	630	HA	ILE	109	46.222	16.012	28.116	0.0869	1.200	H
ATOM	631	CB	ILE	109	48.262	16.001	27.460	0.1303	1.700	C
ATOM	632	HB	ILE	109	49.230	15.682	27.835	0.0187	1.200	H
ATOM	633	CG2	ILE	109	48.042	15.342	26.126	-0.3204	1.700	C
ATOM	634	HG21	ILE	109	47.090	15.658	25.697	0.0882	1.200	H
ATOM	635	HG22	ILE	109	48.848	15.589	25.438	0.0882	1.200	H
ATOM	636	HG23	ILE	109	48.047	14.257	26.215	0.0882	1.200	H
ATOM	637	CG1	ILE	109	48.273	17.526	27.328	-0.0430	1.700	C
ATOM	638	HG12	ILE	109	47.365	17.766	26.771	0.0236	1.200	H
ATOM	639	HG13	ILE	109	48.088	18.096	28.222	0.0236	1.200	H
ATOM	640	CD1	ILE	109	49.386	18.066	26.458	-0.0660	1.700	C
ATOM	641	HD11	ILE	109	49.298	17.704	25.434	0.0186	1.200	H
ATOM	642	HD12	ILE	109	49.315	19.151	26.423	0.0186	1.200	H
ATOM	643	HD13	ILE	109	50.355	17.782	26.871	0.0186	1.200	H
ATOM	644	C	ILE	109	47.069	14.083	28.533	0.5973	1.700	C
ATOM	645	O	ILE	109	46.086	13.492	28.068	-0.5679	1.500	O
ATOM	646	N	LEU	110	48.055	13.465	29.187	-0.4157	1.550	N
ATOM	647	H	LEU	110	48.805	14.015	29.582	0.2719	1.300	H
ATOM	648	CA	LEU	110	48.099	12.018	29.380	-0.0518	1.700	C
ATOM	649	HA	LEU	110	48.167	11.539	28.402	0.0922	1.200	H
ATOM	650	CB	LEU	110	49.324	11.622	30.229	-0.1102	1.700	C
ATOM	651	HB2	LEU	110	50.113	12.346	30.024	0.0457	1.200	H
ATOM	652	HB3	LEU	110	49.074	11.756	31.282	0.0457	1.200	H
ATOM	653	CG	LEU	110	50.008	10.236	30.103	0.3531	1.700	C
ATOM	654	HG	LEU	110	50.635	10.235	29.210	-0.0361	1.200	H
ATOM	655	CD1	LEU	110	50.883	9.980	31.313	-0.4121	1.700	C
ATOM	656	HD11	LEU	110	51.343	9.006	31.223	0.1000	1.200	H
ATOM	657	HD12	LEU	110	51.653	10.748	31.388	0.1000	1.200	H
ATOM	658	HD13	LEU	110	50.280	9.993	32.222	0.1000	1.200	H
ATOM	659	CD2	LEU	110	49.004	9.111	29.970	-0.4121	1.700	C
ATOM	660	HD21	LEU	110	49.503	8.142	29.991	0.1000	1.200	H
ATOM	661	HD22	LEU	110	48.352	9.235	30.821	0.1000	1.200	H
ATOM	662	HD23	LEU	110	48.440	9.206	29.043	0.1000	1.200	H

ATOM	663	C	LEU	110	46.837	11.546	30.094	0.5973	1.700	C
ATOM	664	O	LEU	110	46.174	10.598	29.657	-0.5679	1.500	O
ATOM	665	N	ASP	111	46.498	12.203	31.192	-0.5163	1.550	N
ATOM	666	H	ASP	111	47.060	12.969	31.528	0.2936	1.300	H
ATOM	667	CA	ASP	111	45.329	11.808	31.956	0.0381	1.700	C
ATOM	668	HA	ASP	111	45.431	10.748	32.195	0.0880	1.200	H
ATOM	669	CB	ASP	111	45.271	12.565	33.261	-0.0303	1.700	C
ATOM	670	HB2	ASP	111	45.270	13.639	33.066	-0.0122	1.200	H
ATOM	671	HB3	ASP	111	44.351	12.304	33.782	-0.0122	1.200	H
ATOM	672	CG	ASP	111	46.415	12.216	34.164	0.7994	1.700	C
ATOM	673	OD1	ASP	111	47.179	11.305	33.818	-0.8014	1.500	O
ATOM	674	OD2	ASP	111	46.557	12.849	35.217	-0.8014	1.500	O
ATOM	675	C	ASP	111	44.025	11.944	31.228	0.5366	1.700	C
ATOM	676	O	ASP	111	43.135	11.119	31.406	-0.5819	1.500	O
ATOM	677	N	LEU	112	43.906	12.973	30.398	-0.4157	1.550	N
ATOM	678	H	LEU	112	44.662	13.639	30.305	0.2719	1.300	H
ATOM	679	CA	LEU	112	42.678	13.178	29.646	-0.0518	1.700	C
ATOM	680	HA	LEU	112	41.832	13.073	30.323	0.0922	1.200	H
ATOM	681	CB	LEU	112	42.652	14.557	28.983	-0.1102	1.700	C
ATOM	682	HB2	LEU	112	43.577	14.666	28.414	0.0457	1.200	H
ATOM	683	HB3	LEU	112	41.832	14.569	28.262	0.0457	1.200	H
ATOM	684	CG	LEU	112	42.493	15.776	29.890	0.3531	1.700	C
ATOM	685	HG	LEU	112	43.206	15.731	30.703	-0.0361	1.200	H
ATOM	686	CD1	LEU	112	42.721	17.022	29.065	-0.4121	1.700	C
ATOM	687	HD11	LEU	112	42.602	17.909	29.689	0.1000	1.200	H
ATOM	688	HD12	LEU	112	43.736	17.017	28.667	0.1000	1.200	H
ATOM	689	HD13	LEU	112	42.024	17.056	28.236	0.1000	1.200	H
ATOM	690	CD2	LEU	112	41.105	15.781	30.529	-0.4121	1.700	C
ATOM	691	HD21	LEU	112	41.136	16.396	31.432	0.1000	1.200	H
ATOM	692	HD22	LEU	112	40.373	16.208	29.840	0.1000	1.200	H
ATOM	693	HD23	LEU	112	40.771	14.785	30.813	0.1000	1.200	H
ATOM	694	C	LEU	112	42.566	12.089	28.606	0.5973	1.700	C
ATOM	695	O	LEU	112	41.471	11.594	28.349	-0.5679	1.500	O
ATOM	696	N	TRP	113	43.694	11.697	28.025	-0.4157	1.550	N
ATOM	697	H	TRP	113	44.572	12.126	28.287	0.2719	1.300	H
ATOM	698	CA	TRP	113	43.703	10.637	27.022	-0.0275	1.700	C
ATOM	699	HA	TRP	113	43.040	10.922	26.204	0.1123	1.200	H
ATOM	700	CB	TRP	113	45.120	10.456	26.457	-0.0050	1.700	C
ATOM	701	HB2	TRP	113	45.427	11.390	25.984	0.0339	1.200	H
ATOM	702	HB3	TRP	113	45.820	10.254	27.262	0.0339	1.200	H
ATOM	703	CG	TRP	113	45.242	9.355	25.449	-0.1415	1.700	C
ATOM	704	CD1	TRP	113	44.892	9.396	24.125	-0.1638	1.700	C
ATOM	705	HD1	TRP	113	44.490	10.265	23.623	0.2062	1.200	H
ATOM	706	NE1	TRP	113	45.102	8.174	23.542	-0.3418	1.550	N
ATOM	707	HE1	TRP	113	44.890	7.963	22.578	0.3412	1.300	H
ATOM	708	CE2	TRP	113	45.600	7.317	24.487	0.1380	1.700	C
ATOM	709	CZ2	TRP	113	45.962	5.979	24.380	-0.2601	1.700	C
ATOM	710	HZ2	TRP	113	45.875	5.450	23.442	0.1572	1.200	H
ATOM	711	CH2	TRP	113	46.437	5.357	25.506	-0.1134	1.700	C
ATOM	712	HH2	TRP	113	46.720	4.325	25.421	0.1417	1.200	H
ATOM	713	CZ3	TRP	113	46.557	6.040	26.723	-0.1972	1.700	C
ATOM	714	HZ3	TRP	113	46.972	5.532	27.582	0.1447	1.200	H
ATOM	715	CE3	TRP	113	46.196	7.372	26.830	-0.2387	1.700	C
ATOM	716	HE3	TRP	113	46.382	7.941	27.713	0.1700	1.200	H
ATOM	717	CD2	TRP	113	45.706	8.030	25.697	0.1243	1.700	C
ATOM	718	C	TRP	113	43.177	9.333	27.642	0.5973	1.700	C
ATOM	719	O	TRP	113	42.280	8.704	27.102	-0.5679	1.500	O
ATOM	720	N	ILE	114	43.681	8.977	28.816	-0.4157	1.550	N
ATOM	721	H	ILE	114	44.392	9.556	29.244	0.2719	1.300	H
ATOM	722	CA	ILE	114	43.258	7.763	29.527	-0.0597	1.700	C
ATOM	723	HA	ILE	114	43.377	6.906	28.862	0.0869	1.200	H
ATOM	724	CB	ILE	114	44.145	7.541	30.777	0.1303	1.700	C
ATOM	725	HB	ILE	114	44.133	8.473	31.347	0.0187	1.200	H
ATOM	726	CG2	ILE	114	43.579	6.451	31.705	-0.3204	1.700	C
ATOM	727	HG21	ILE	114	44.258	6.279	32.537	0.0882	1.200	H
ATOM	728	HG22	ILE	114	42.626	6.767	32.122	0.0882	1.200	H
ATOM	729	HG23	ILE	114	43.454	5.522	31.150	0.0882	1.200	H
ATOM	730	CG1	ILE	114	45.589	7.286	30.335	-0.0430	1.700	C
ATOM	731	HG12	ILE	114	45.707	6.267	29.965	0.0236	1.200	H
ATOM	732	HG13	ILE	114	45.842	8.003	29.577	0.0236	1.200	H
ATOM	733	CD1	ILE	114	46.592	7.581	31.432	-0.0660	1.700	C
ATOM	734	HD11	ILE	114	47.580	7.300	31.087	0.0186	1.200	H
ATOM	735	HD12	ILE	114	46.527	8.620	31.753	0.0186	1.200	H
ATOM	736	HD13	ILE	114	46.387	6.923	32.271	0.0186	1.200	H
ATOM	737	C	ILE	114	41.789	7.843	29.940	0.5973	1.700	C
ATOM	738	O	ILE	114	41.086	6.831	29.979	-0.5679	1.500	O
ATOM	739	N	TYR	115	41.334	9.041	30.282	-0.4157	1.550	N

ATOM	740	H	TYR	115	41.957	9.837	30.272	0.2719	1.300	H
ATOM	741	CA	TYR	115	39.946	9.259	30.670	-0.0014	1.700	C
ATOM	742	HA	TYR	115	39.717	8.599	31.504	0.0876	1.200	H
ATOM	743	CB	TYR	115	39.760	10.713	31.098	-0.0152	1.700	C
ATOM	744	HB2	TYR	115	40.446	10.890	31.916	0.0295	1.200	H
ATOM	745	HB3	TYR	115	40.083	11.361	30.291	0.0295	1.200	H
ATOM	746	CG	TYR	115	38.346	11.101	31.430	-0.0011	1.700	C
ATOM	747	CD1	TYR	115	37.479	10.202	32.030	-0.1906	1.700	C
ATOM	748	HD1	TYR	115	37.805	9.203	32.277	0.1699	1.200	H
ATOM	749	CE1	TYR	115	36.188	10.559	32.347	-0.2341	1.700	C
ATOM	750	HE1	TYR	115	35.531	9.846	32.823	0.1656	1.200	H
ATOM	751	CZ	TYR	115	35.749	11.838	32.066	0.3226	1.700	C
ATOM	752	OH	TYR	115	34.455	12.214	32.394	-0.5579	1.500	O
ATOM	753	HH	TYR	115	33.950	11.503	32.794	0.3992	1.200	H
ATOM	754	CE2	TYR	115	36.600	12.747	31.465	-0.2341	1.700	C
ATOM	755	HE2	TYR	115	36.247	13.738	31.243	0.1656	1.200	H
ATOM	756	CD2	TYR	115	37.883	12.373	31.152	-0.1906	1.700	C
ATOM	757	HD2	TYR	115	38.541	13.093	30.686	0.1699	1.200	H
ATOM	758	C	TYR	115	39.013	8.929	29.499	0.5973	1.700	C
ATOM	759	O	TYR	115	38.077	8.157	29.663	-0.5679	1.500	O
ATOM	760	N	HIS	116	39.285	9.499	28.324	-0.4157	1.550	N
ATOM	761	H	HIS	116	40.076	10.125	28.246	0.2719	1.300	H
ATOM	762	CA	HIS	116	38.466	9.273	27.131	-0.0581	1.700	C
ATOM	763	HA	HIS	116	37.542	9.554	27.496	0.1360	1.200	H
ATOM	764	CB	HIS	116	38.913	10.203	25.986	-0.0074	1.700	C
ATOM	765	HB2	HIS	116	38.552	11.212	26.189	0.0367	1.200	H
ATOM	766	HB3	HIS	116	40.004	10.241	25.968	0.0367	1.200	H
ATOM	767	CG	HIS	116	38.460	9.766	24.615	0.1868	1.700	C
ATOM	768	ND1	HIS	116	38.933	8.803	23.777	-0.5432	1.550	N
ATOM	769	CE1	HIS	116	38.171	8.844	22.632	0.1635	1.700	C
ATOM	770	HE1	HIS	116	38.290	8.200	21.776	0.1435	1.200	H
ATOM	771	NE2	HIS	116	37.262	9.797	22.760	-0.2795	1.550	N
ATOM	772	HE2	HIS	116	36.555	10.027	22.077	0.3339	1.300	H
ATOM	773	CD2	HIS	116	37.413	10.368	23.946	-0.2207	1.700	C
ATOM	774	HD2	HIS	116	36.814	11.180	24.332	0.1862	1.200	H
ATOM	775	C	HIS	116	38.581	7.843	26.661	0.5973	1.700	C
ATOM	776	O	HIS	116	37.592	7.226	26.295	-0.5679	1.500	O
ATOM	777	N	THR	117	39.827	7.392	26.570	-0.4157	1.550	N
ATOM	778	H	THR	117	40.569	8.017	26.848	0.2719	1.300	H
ATOM	779	CA	THR	117	40.230	6.063	26.118	-0.0389	1.700	C
ATOM	780	HA	THR	117	39.774	5.900	25.140	0.1007	1.200	H
ATOM	781	CB	THR	117	41.740	6.091	25.928	0.3654	1.700	C
ATOM	782	HB	THR	117	42.216	6.535	26.790	0.0043	1.200	H
ATOM	783	CG2	THR	117	42.337	4.739	25.837	-0.2438	1.700	C
ATOM	784	HG21	THR	117	43.152	4.638	26.543	0.0642	1.200	H
ATOM	785	HG22	THR	117	41.624	3.931	25.831	0.0642	1.200	H
ATOM	786	HG23	THR	117	42.832	4.638	24.869	0.0642	1.200	H
ATOM	787	OG1	THR	117	42.015	6.790	24.722	-0.6761	1.500	O
ATOM	788	HG1	THR	117	42.793	7.335	24.870	0.4102	1.200	H
ATOM	789	C	THR	117	39.816	4.877	26.993	0.5973	1.700	C
ATOM	790	O	THR	117	39.170	3.942	26.514	-0.5679	1.500	O
ATOM	791	N	GLN	118	40.174	4.938	28.270	-0.4157	1.550	N
ATOM	792	H	GLN	118	40.689	5.738	28.601	0.2719	1.300	H
ATOM	793	CA	GLN	118	39.872	3.879	29.206	-0.0031	1.700	C
ATOM	794	HA	GLN	118	39.441	3.048	28.653	0.0850	1.200	H
ATOM	795	CB	GLN	118	41.170	3.383	29.819	-0.0036	1.700	C
ATOM	796	HB2	GLN	118	41.576	4.157	30.470	0.0171	1.200	H
ATOM	797	HB3	GLN	118	40.968	2.505	30.433	0.0171	1.200	H
ATOM	798	CG	GLN	118	42.219	3.026	28.772	-0.0645	1.700	C
ATOM	799	HG2	GLN	118	42.540	3.931	28.291	0.0352	1.200	H
ATOM	800	HG3	GLN	118	43.096	2.642	29.296	0.0352	1.200	H
ATOM	801	CD	GLN	118	41.761	1.947	27.802	0.6951	1.700	C
ATOM	802	OE1	GLN	118	40.821	1.208	28.074	-0.6086	1.500	O
ATOM	803	NE2	GLN	118	42.456	1.829	26.679	-0.9407	1.550	N
ATOM	804	HE21	GLN	118	43.246	2.432	26.506	0.4251	1.300	H
ATOM	805	HE22	GLN	118	42.202	1.109	26.018	0.4251	1.300	H
ATOM	806	C	GLN	118	38.816	4.165	30.289	0.5973	1.700	C
ATOM	807	O	GLN	118	38.381	3.244	30.976	-0.5679	1.500	O
ATOM	808	N	GLY	119	38.437	5.421	30.502	-0.4157	1.550	N
ATOM	809	H	GLY	119	38.803	6.178	29.940	0.2719	1.300	H
ATOM	810	CA	GLY	119	37.373	5.682	31.457	-0.0252	1.700	C
ATOM	811	HA2	GLY	119	36.812	6.543	31.095	0.0698	1.200	H
ATOM	812	HA3	GLY	119	36.677	4.847	31.455	0.0698	1.200	H
ATOM	813	C	GLY	119	37.723	5.957	32.898	0.5973	1.700	C
ATOM	814	O	GLY	119	36.858	5.943	33.781	-0.5679	1.500	O
ATOM	815	N	TYR	120	38.992	6.226	33.156	-0.4157	1.550	N
ATOM	816	H	TYR	120	39.672	6.229	32.410	0.2719	1.300	H

ATOM	817	CA	TYR	120	39.432	6.520	34.511	-0.0014	1.700	C
ATOM	818	HA	TYR	120	38.762	6.071	35.244	0.0876	1.200	H
ATOM	819	CB	TYR	120	40.829	5.955	34.733	-0.0152	1.700	C
ATOM	820	HB2	TYR	120	41.524	6.397	34.021	0.0295	1.200	H
ATOM	821	HB3	TYR	120	41.160	6.230	35.735	0.0295	1.200	H
ATOM	822	CG	TYR	120	40.857	4.456	34.614	-0.0011	1.700	C
ATOM	823	CD1	TYR	120	40.099	3.678	35.482	-0.1906	1.700	C
ATOM	824	HD1	TYR	120	39.557	4.155	36.283	0.1699	1.200	H
ATOM	825	CE1	TYR	120	40.059	2.308	35.365	-0.2341	1.700	C
ATOM	826	HE1	TYR	120	39.462	1.719	36.040	0.1656	1.200	H
ATOM	827	CZ	TYR	120	40.781	1.692	34.370	0.3226	1.700	C
ATOM	828	OH	TYR	120	40.679	0.329	34.290	-0.5579	1.500	O
ATOM	829	HH	TYR	120	40.091	-0.033	34.956	0.3992	1.200	H
ATOM	830	CE2	TYR	120	41.562	2.432	33.479	-0.2341	1.700	C
ATOM	831	HE2	TYR	120	42.122	1.937	32.699	0.1656	1.200	H
ATOM	832	CD2	TYR	120	41.597	3.812	33.607	-0.1906	1.700	C
ATOM	833	HD2	TYR	120	42.196	4.392	32.924	0.1699	1.200	H
ATOM	834	C	TYR	120	39.430	8.029	34.690	0.5973	1.700	C
ATOM	835	O	TYR	120	40.177	8.742	34.006	-0.5679	1.500	O
ATOM	836	N	PHE	121	38.535	8.516	35.542	-0.4157	1.550	N
ATOM	837	H	PHE	121	37.930	7.883	36.043	0.2719	1.300	H
ATOM	838	CA	PHE	121	38.425	9.936	35.821	-0.0024	1.700	C
ATOM	839	HA	PHE	121	38.004	10.401	34.932	0.0978	1.200	H
ATOM	840	CB	PHE	121	37.479	10.157	36.993	-0.0343	1.700	C
ATOM	841	HB2	PHE	121	36.632	9.476	36.892	0.0295	1.200	H
ATOM	842	HB3	PHE	121	37.978	9.906	37.931	0.0295	1.200	H
ATOM	843	CG	PHE	121	36.934	11.532	37.058	0.0118	1.700	C
ATOM	844	CD1	PHE	121	35.898	11.910	36.220	-0.1256	1.700	C
ATOM	845	HD1	PHE	121	35.461	11.192	35.542	0.1330	1.200	H
ATOM	846	CE1	PHE	121	35.438	13.218	36.214	-0.1704	1.700	C
ATOM	847	HE1	PHE	121	34.637	13.509	35.549	0.1430	1.200	H
ATOM	848	CZ	PHE	121	36.018	14.153	37.059	-0.1072	1.700	C
ATOM	849	HZ	PHE	121	35.672	15.176	37.056	0.1297	1.200	H
ATOM	850	CE2	PHE	121	37.051	13.777	37.908	-0.1704	1.700	C
ATOM	851	HE2	PHE	121	37.515	14.499	38.564	0.1430	1.200	H
ATOM	852	CD2	PHE	121	37.499	12.477	37.903	-0.1256	1.700	C
ATOM	853	HD2	PHE	121	38.327	12.203	38.535	0.1330	1.200	H
ATOM	854	C	PHE	121	39.817	10.461	36.156	0.5973	1.700	C
ATOM	855	O	PHE	121	40.487	9.933	37.044	-0.5679	1.500	O
ATOM	856	N	PRO	122	40.271	11.504	35.446	-0.2548	1.550	N
ATOM	857	CD	PRO	122	39.563	12.224	34.377	0.0192	1.700	C
ATOM	858	HD2	PRO	122	38.518	12.409	34.626	0.0391	1.200	H
ATOM	859	HD3	PRO	122	39.649	11.689	33.461	0.0391	1.200	H
ATOM	860	CG	PRO	122	40.301	13.525	34.339	0.0189	1.700	C
ATOM	861	HG2	PRO	122	39.976	14.172	35.156	0.0213	1.200	H
ATOM	862	HG3	PRO	122	40.161	14.026	33.381	0.0213	1.200	H
ATOM	863	CB	PRO	122	41.692	13.109	34.523	-0.0070	1.700	C
ATOM	864	HB2	PRO	122	42.358	13.949	34.726	0.0253	1.200	H
ATOM	865	HB3	PRO	122	42.030	12.602	33.618	0.0253	1.200	H
ATOM	866	CA	PRO	122	41.592	12.095	35.661	-0.0266	1.700	C
ATOM	867	HA	PRO	122	42.358	11.332	35.517	0.0641	1.200	H
ATOM	868	C	PRO	122	41.820	12.751	37.006	0.5896	1.700	C
ATOM	869	O	PRO	122	41.823	13.973	37.101	-0.5748	1.500	O
ATOM	870	N	ASP	123	41.992	11.955	38.052	-0.5163	1.550	N
ATOM	871	H	ASP	123	41.879	10.956	37.963	0.2936	1.300	H
ATOM	872	CA	ASP	123	42.255	12.509	39.381	0.0381	1.700	C
ATOM	873	HA	ASP	123	42.857	13.414	39.283	0.0880	1.200	H
ATOM	874	CB	ASP	123	40.947	12.863	40.094	-0.0303	1.700	C
ATOM	875	HB2	ASP	123	41.180	13.366	41.034	-0.0122	1.200	H
ATOM	876	HB3	ASP	123	40.379	13.563	39.479	-0.0122	1.200	H
ATOM	877	CG	ASP	123	40.086	11.663	40.379	0.7994	1.700	C
ATOM	878	OD1	ASP	123	40.296	10.606	39.757	-0.8014	1.500	O
ATOM	879	OD2	ASP	123	39.173	11.774	41.223	-0.8014	1.500	O
ATOM	880	C	ASP	123	43.060	11.514	40.204	0.5366	1.700	C
ATOM	881	O	ASP	123	43.178	11.627	41.426	-0.5819	1.500	O
ATOM	882	N	TRP	124	43.648	10.555	39.508	-0.4157	1.550	N
ATOM	883	H	TRP	124	43.546	10.521	38.504	0.2719	1.300	H
ATOM	884	CA	TRP	124	44.409	9.511	40.154	-0.0275	1.700	C
ATOM	885	HA	TRP	124	44.077	9.413	41.188	0.1123	1.200	H
ATOM	886	CB	TRP	124	44.087	8.173	39.478	-0.0050	1.700	C
ATOM	887	HB2	TRP	124	44.666	7.380	39.951	0.0339	1.200	H
ATOM	888	HB3	TRP	124	43.030	7.947	39.631	0.0339	1.200	H
ATOM	889	CG	TRP	124	44.358	8.181	38.026	-0.1415	1.700	C
ATOM	890	CD1	TRP	124	43.546	8.647	37.030	-0.1638	1.700	C
ATOM	891	HD1	TRP	124	42.567	9.050	37.188	0.2062	1.200	H
ATOM	892	NE1	TRP	124	44.196	8.571	35.811	-0.3418	1.550	N
ATOM	893	HE1	TRP	124	43.812	8.890	34.932	0.3412	1.300	H

ATOM	894	CE2	TRP	124	45.444	8.040	36.016	0.1380	1.700	C
ATOM	895	CZ2	TRP	124	46.472	7.773	35.111	-0.2601	1.700	C
ATOM	896	HZ2	TRP	124	46.370	8.035	34.075	0.1572	1.200	H
ATOM	897	CH2	TRP	124	47.629	7.240	35.614	-0.1134	1.700	C
ATOM	898	HH2	TRP	124	48.456	7.056	34.944	0.1417	1.200	H
ATOM	899	CZ3	TRP	124	47.781	6.969	36.984	-0.1972	1.700	C
ATOM	900	HZ3	TRP	124	48.700	6.597	37.364	0.1447	1.200	H
ATOM	901	CE3	TRP	124	46.777	7.228	37.875	-0.2387	1.700	C
ATOM	902	HE3	TRP	124	46.911	7.027	38.928	0.1700	1.200	H
ATOM	903	CD2	TRP	124	45.575	7.777	37.398	0.1243	1.700	C
ATOM	904	C	TRP	124	45.917	9.755	40.192	0.5973	1.700	C
ATOM	905	O	TRP	124	46.529	9.672	41.250	-0.5679	1.500	O
ATOM	906	N	GLN	125	46.496	10.130	39.057	-0.4157	1.550	N
ATOM	907	H	GLN	125	45.942	10.217	38.216	0.2719	1.300	H
ATOM	908	CA	GLN	125	47.929	10.347	38.956	-0.0031	1.700	C
ATOM	909	HA	GLN	125	48.415	9.475	39.397	0.0850	1.200	H
ATOM	910	CB	GLN	125	48.350	10.396	37.490	-0.0036	1.700	C
ATOM	911	HB2	GLN	125	47.937	9.540	36.974	0.0171	1.200	H
ATOM	912	HB3	GLN	125	47.910	11.287	37.038	0.0171	1.200	H
ATOM	913	CG	GLN	125	49.842	10.425	37.292	-0.0645	1.700	C
ATOM	914	HG2	GLN	125	50.359	11.207	37.820	0.0352	1.200	H
ATOM	915	HG3	GLN	125	50.228	9.479	37.665	0.0352	1.200	H
ATOM	916	CD	GLN	125	50.258	10.553	35.834	0.6951	1.700	C
ATOM	917	OE1	GLN	125	51.423	10.759	35.544	-0.6086	1.500	O
ATOM	918	NE2	GLN	125	49.313	10.441	34.919	-0.9407	1.550	N
ATOM	919	HE21	GLN	125	49.549	10.538	33.946	0.4251	1.300	H
ATOM	920	HE22	GLN	125	48.336	10.386	35.179	0.4251	1.300	H
ATOM	921	C	GLN	125	48.455	11.567	39.687	0.5973	1.700	C
ATOM	922	O	GLN	125	49.004	12.463	39.061	-0.5679	1.500	O
ATOM	923	N	ASN	126	48.304	11.591	41.009	-0.4157	1.550	N
ATOM	924	H	ASN	126	47.869	10.812	41.475	0.2719	1.300	H
ATOM	925	CA	ASN	126	48.790	12.685	41.850	0.0143	1.700	C
ATOM	926	HA	ASN	126	48.978	13.576	41.249	0.1048	1.200	H
ATOM	927	CB	ASN	126	47.762	13.020	42.920	-0.2041	1.700	C
ATOM	928	HB2	ASN	126	47.522	12.115	43.483	0.0797	1.200	H
ATOM	929	HB3	ASN	126	48.186	13.745	43.616	0.0797	1.200	H
ATOM	930	CG	ASN	126	46.519	13.609	42.340	0.7130	1.700	C
ATOM	931	OD1	ASN	126	46.586	14.469	41.454	-0.5931	1.500	O
ATOM	932	ND2	ASN	126	45.373	13.127	42.785	-0.9191	1.550	N
ATOM	933	HD21	ASN	126	45.364	12.372	43.452	0.4196	1.300	H
ATOM	934	HD22	ASN	126	44.509	13.467	42.386	0.4196	1.300	H
ATOM	935	C	ASN	126	50.090	12.254	42.515	0.5973	1.700	C
ATOM	936	O	ASN	126	50.201	11.119	42.987	-0.5679	1.500	O
ATOM	937	N	TYR	127	51.070	13.144	42.567	-0.4157	1.550	N
ATOM	938	H	TYR	127	50.948	14.068	42.178	0.2719	1.300	H
ATOM	939	CA	TYR	127	52.343	12.797	43.168	-0.0014	1.700	C
ATOM	940	HA	TYR	127	52.376	11.734	43.397	0.0876	1.200	H
ATOM	941	CB	TYR	127	53.456	13.054	42.165	-0.0152	1.700	C
ATOM	942	HB2	TYR	127	53.533	14.118	41.934	0.0295	1.200	H
ATOM	943	HB3	TYR	127	54.363	12.716	42.642	0.0295	1.200	H
ATOM	944	CG	TYR	127	53.332	12.235	40.903	-0.0011	1.700	C
ATOM	945	CD1	TYR	127	53.732	10.904	40.872	-0.1906	1.700	C
ATOM	946	HD1	TYR	127	54.157	10.459	41.756	0.1699	1.200	H
ATOM	947	CE1	TYR	127	53.616	10.138	39.715	-0.2341	1.700	C
ATOM	948	HE1	TYR	127	53.946	9.114	39.707	0.1656	1.200	H
ATOM	949	CZ	TYR	127	53.105	10.704	38.569	0.3226	1.700	C
ATOM	950	OH	TYR	127	53.019	9.952	37.407	-0.5579	1.500	O
ATOM	951	HH	TYR	127	52.595	10.435	36.689	0.3992	1.200	H
ATOM	952	CE2	TYR	127	52.703	12.028	38.578	-0.2341	1.700	C
ATOM	953	HE2	TYR	127	52.312	12.481	37.680	0.1656	1.200	H
ATOM	954	CD2	TYR	127	52.817	12.785	39.744	-0.1906	1.700	C
ATOM	955	HD2	TYR	127	52.502	13.819	39.730	0.1699	1.200	H
ATOM	956	C	TYR	127	52.606	13.543	44.475	0.5973	1.700	C
ATOM	957	O	TYR	127	51.977	14.556	44.753	-0.5679	1.500	O
ATOM	958	N	THR	128	53.496	13.013	45.302	-0.4157	1.550	N
ATOM	959	H	THR	128	53.979	12.162	45.054	0.2719	1.300	H
ATOM	960	CA	THR	128	53.824	13.648	46.564	-0.0389	1.700	C
ATOM	961	HA	THR	128	52.899	13.845	47.107	0.1007	1.200	H
ATOM	962	CB	THR	128	54.757	12.769	47.415	0.3654	1.700	C
ATOM	963	HB	THR	128	55.172	13.342	48.232	0.0043	1.200	H
ATOM	964	CG2	THR	128	53.999	11.584	48.010	-0.2438	1.700	C
ATOM	965	HG21	THR	128	54.687	10.966	48.585	0.0642	1.200	H
ATOM	966	HG22	THR	128	53.206	11.942	48.666	0.0642	1.200	H
ATOM	967	HG23	THR	128	53.566	10.980	47.219	0.0642	1.200	H
ATOM	968	OG1	THR	128	55.868	12.333	46.613	-0.6761	1.500	O
ATOM	969	HG1	THR	128	56.554	12.030	47.214	0.4102	1.200	H
ATOM	970	C	THR	128	54.562	14.932	46.260	0.5973	1.700	C

ATOM	971	O	THR	128	55.011	15.147	45.124	-0.5679	1.500	O
ATOM	972	N	PRO	129	54.712	15.799	47.276	-0.2548	1.550	N
ATOM	973	CD	PRO	129	54.148	15.640	48.626	0.0192	1.700	C
ATOM	974	HD2	PRO	129	54.774	15.034	49.259	0.0391	1.200	H
ATOM	975	HD3	PRO	129	53.146	15.277	48.515	0.0391	1.200	H
ATOM	976	CG	PRO	129	54.100	17.046	49.111	0.0189	1.700	C
ATOM	977	HG2	PRO	129	54.034	17.117	50.197	0.0213	1.200	H
ATOM	978	HG3	PRO	129	53.321	17.607	48.603	0.0213	1.200	H
ATOM	979	CB	PRO	129	55.316	17.615	48.594	-0.0070	1.700	C
ATOM	980	HB2	PRO	129	56.161	17.258	49.189	0.0253	1.200	H
ATOM	981	HB3	PRO	129	55.287	18.706	48.610	0.0253	1.200	H
ATOM	982	CA	PRO	129	55.397	17.085	47.170	-0.0266	1.700	C
ATOM	983	HA	PRO	129	54.875	17.744	46.474	0.0641	1.200	H
ATOM	984	C	PRO	129	56.863	16.921	46.801	0.5896	1.700	C
ATOM	985	O	PRO	129	57.395	15.806	46.763	-0.5748	1.500	O
ATOM	986	N	GLY	130	57.509	18.040	46.510	-0.4157	1.550	N
ATOM	987	H	GLY	130	57.036	18.929	46.561	0.2719	1.300	H
ATOM	988	CA	GLY	130	58.926	18.006	46.233	-0.0252	1.700	C
ATOM	989	HA2	GLY	130	59.280	17.027	45.916	0.0698	1.200	H
ATOM	990	HA3	GLY	130	59.133	18.779	45.510	0.0698	1.200	H
ATOM	991	C	GLY	130	59.606	18.419	47.536	0.5973	1.700	C
ATOM	992	O	GLY	130	58.934	18.567	48.580	-0.5679	1.500	O
ATOM	993	N	PRO	131	60.941	18.565	47.530	-0.2548	1.550	N
ATOM	994	CD	PRO	131	61.740	19.194	48.600	0.0192	1.700	C
ATOM	995	HD2	PRO	131	61.717	18.601	49.515	0.0391	1.200	H
ATOM	996	HD3	PRO	131	61.385	20.209	48.782	0.0391	1.200	H
ATOM	997	CG	PRO	131	63.136	19.220	48.005	0.0189	1.700	C
ATOM	998	HG2	PRO	131	63.663	18.297	48.255	0.0213	1.200	H
ATOM	999	HG3	PRO	131	63.703	20.077	48.369	0.0213	1.200	H
ATOM	1000	CB	PRO	131	62.908	19.307	46.529	-0.0070	1.700	C
ATOM	1001	HB2	PRO	131	63.795	18.952	46.004	0.0253	1.200	H
ATOM	1002	HB3	PRO	131	62.737	20.310	46.201	0.0253	1.200	H
ATOM	1003	CA	PRO	131	61.754	18.336	46.332	-0.0266	1.700	C
ATOM	1004	HA	PRO	131	61.245	18.568	45.400	0.0641	1.200	H
ATOM	1005	C	PRO	131	62.235	16.890	46.345	0.5896	1.700	C
ATOM	1006	O	PRO	131	62.070	16.191	47.339	-0.5748	1.500	O
ATOM	1007	N	GLY	132	62.844	16.455	45.254	-0.4157	1.550	N
ATOM	1008	H	GLY	132	63.015	17.067	44.469	0.2719	1.300	H
ATOM	1009	CA	GLY	132	63.339	15.095	45.182	-0.0252	1.700	C
ATOM	1010	HA2	GLY	132	64.346	15.113	44.768	0.0698	1.200	H
ATOM	1011	HA3	GLY	132	63.412	14.641	46.171	0.0698	1.200	H
ATOM	1012	C	GLY	132	62.462	14.237	44.296	0.5973	1.700	C
ATOM	1013	O	GLY	132	61.935	14.710	43.290	-0.5679	1.500	O
ATOM	1014	N	VAL	133	62.358	12.957	44.633	-0.4157	1.550	N
ATOM	1015	H	VAL	133	62.795	12.617	45.477	0.2719	1.300	H
ATOM	1016	CA	VAL	133	61.540	12.039	43.866	-0.0875	1.700	C
ATOM	1017	HA	VAL	133	61.668	12.253	42.813	0.0969	1.200	H
ATOM	1018	CB	VAL	133	61.904	10.582	44.156	0.2985	1.700	C
ATOM	1019	HB	VAL	133	61.746	10.367	45.214	-0.0297	1.200	H
ATOM	1020	CG1	VAL	133	61.041	9.674	43.337	-0.3192	1.700	C
ATOM	1021	HG11	VAL	133	61.351	8.670	43.600	0.0791	1.200	H
ATOM	1022	HG12	VAL	133	59.992	9.765	43.612	0.0791	1.200	H
ATOM	1023	HG13	VAL	133	61.168	9.852	42.271	0.0791	1.200	H
ATOM	1024	CG2	VAL	133	63.354	10.331	43.827	-0.3192	1.700	C
ATOM	1025	HG21	VAL	133	63.599	9.284	44.005	0.0791	1.200	H
ATOM	1026	HG22	VAL	133	63.552	10.573	42.783	0.0791	1.200	H
ATOM	1027	HG23	VAL	133	64.003	10.936	44.460	0.0791	1.200	H
ATOM	1028	C	VAL	133	60.129	12.273	44.347	0.5973	1.700	C
ATOM	1029	O	VAL	133	59.918	12.461	45.552	-0.5679	1.500	O
ATOM	1030	N	ARG	134	59.178	12.320	43.414	-0.3479	1.550	N
ATOM	1031	H	ARG	134	59.418	12.183	42.445	0.2747	1.300	H
ATOM	1032	CA	ARG	134	57.769	12.513	43.755	-0.2637	1.700	C
ATOM	1033	HA	ARG	134	57.661	12.812	44.798	0.1560	1.200	H
ATOM	1034	CB	ARG	134	57.144	13.609	42.885	-0.0007	1.700	C
ATOM	1035	HB2	ARG	134	57.261	13.422	41.848	0.0327	1.200	H
ATOM	1036	HB3	ARG	134	56.088	13.582	43.089	0.0327	1.200	H
ATOM	1037	CG	ARG	134	57.536	15.017	43.310	0.0390	1.700	C
ATOM	1038	HG2	ARG	134	56.922	15.697	42.729	0.0285	1.200	H
ATOM	1039	HG3	ARG	134	57.316	15.152	44.362	0.0285	1.200	H
ATOM	1040	CD	ARG	134	59.013	15.229	43.126	0.0486	1.700	C
ATOM	1041	HD2	ARG	134	59.532	14.615	43.845	0.0687	1.200	H
ATOM	1042	HD3	ARG	134	59.321	14.964	42.114	0.0687	1.200	H
ATOM	1043	NE	ARG	134	59.480	16.568	43.462	-0.5295	1.550	N
ATOM	1044	HE	ARG	134	60.273	16.625	44.083	0.3456	1.300	H
ATOM	1045	CZ	ARG	134	59.027	17.693	42.912	0.8076	1.700	C
ATOM	1046	NH1	ARG	134	58.066	17.669	42.001	-0.8627	1.550	N
ATOM	1047	HH11	ARG	134	57.726	18.520	41.585	0.4478	1.300	H

ATOM	1048	HH12	ARG	134	57.713	16.781	41.679	0.4478	1.300	H
ATOM	1049	NH2	ARG	134	59.594	18.850	43.218	-0.8627	1.550	N
ATOM	1050	HH21	ARG	134	60.425	18.846	43.791	0.4478	1.300	H
ATOM	1051	HH22	ARG	134	59.312	19.686	42.735	0.4478	1.300	H
ATOM	1052	C	ARG	134	57.080	11.179	43.550	0.7341	1.700	C
ATOM	1053	O	ARG	134	57.033	10.663	42.437	-0.5894	1.500	O
ATOM	1054	N	TYR	135	56.585	10.603	44.632	-0.4157	1.550	N
ATOM	1055	H	TYR	135	56.678	11.049	45.530	0.2719	1.300	H
ATOM	1056	CA	TYR	135	55.959	9.293	44.567	-0.0014	1.700	C
ATOM	1057	HA	TYR	135	56.464	8.741	43.777	0.0876	1.200	H
ATOM	1058	CB	TYR	135	56.216	8.518	45.870	-0.0152	1.700	C
ATOM	1059	HB2	TYR	135	55.801	9.078	46.710	0.0295	1.200	H
ATOM	1060	HB3	TYR	135	55.699	7.558	45.827	0.0295	1.200	H
ATOM	1061	CG	TYR	135	57.692	8.256	46.111	-0.0011	1.700	C
ATOM	1062	CD1	TYR	135	58.375	7.295	45.379	-0.1906	1.700	C
ATOM	1063	HD1	TYR	135	57.838	6.698	44.657	0.1699	1.200	H
ATOM	1064	CE1	TYR	135	59.721	7.123	45.524	-0.2341	1.700	C
ATOM	1065	HE1	TYR	135	60.242	6.379	44.939	0.1656	1.200	H
ATOM	1066	CZ	TYR	135	60.411	7.913	46.410	0.3226	1.700	C
ATOM	1067	OH	TYR	135	61.774	7.771	46.537	-0.5579	1.500	O
ATOM	1068	HH	TYR	135	62.148	8.374	47.186	0.3992	1.200	H
ATOM	1069	CE2	TYR	135	59.764	8.860	47.153	-0.2341	1.700	C
ATOM	1070	HE2	TYR	135	60.312	9.482	47.846	0.1656	1.200	H
ATOM	1071	CD2	TYR	135	58.417	9.027	47.006	-0.1906	1.700	C
ATOM	1072	HD2	TYR	135	57.916	9.793	47.580	0.1699	1.200	H
ATOM	1073	C	TYR	135	54.484	9.363	44.279	0.5973	1.700	C
ATOM	1074	O	TYR	135	53.797	10.266	44.766	-0.5679	1.500	O
ATOM	1075	N	PRO	136	53.967	8.396	43.495	-0.2548	1.550	N
ATOM	1076	CD	PRO	136	54.722	7.288	42.890	0.0192	1.700	C
ATOM	1077	HD2	PRO	136	55.414	6.833	43.598	0.0391	1.200	H
ATOM	1078	HD3	PRO	136	55.259	7.667	42.033	0.0391	1.200	H
ATOM	1079	CG	PRO	136	53.631	6.311	42.576	0.0189	1.700	C
ATOM	1080	HG2	PRO	136	53.334	5.754	43.465	0.0213	1.200	H
ATOM	1081	HG3	PRO	136	53.949	5.618	41.806	0.0213	1.200	H
ATOM	1082	CB	PRO	136	52.549	7.179	42.097	-0.0070	1.700	C
ATOM	1083	HB2	PRO	136	51.588	6.672	42.023	0.0253	1.200	H
ATOM	1084	HB3	PRO	136	52.917	7.625	41.182	0.0253	1.200	H
ATOM	1085	CA	PRO	136	52.554	8.311	43.115	-0.0266	1.700	C
ATOM	1086	HA	PRO	136	52.228	9.237	42.640	0.0641	1.200	H
ATOM	1087	C	PRO	136	51.679	8.005	44.311	0.5896	1.700	C
ATOM	1088	O	PRO	136	52.010	7.140	45.110	-0.5748	1.500	O
ATOM	1089	N	LEU	137	50.584	8.745	44.451	-0.4157	1.550	N
ATOM	1090	H	LEU	137	50.369	9.458	43.770	0.2719	1.300	H
ATOM	1091	CA	LEU	137	49.678	8.560	45.570	-0.0518	1.700	C
ATOM	1092	HA	LEU	137	50.266	8.396	46.472	0.0922	1.200	H
ATOM	1093	CB	LEU	137	48.820	9.813	45.800	-0.1102	1.700	C
ATOM	1094	HB2	LEU	137	48.190	9.938	44.917	0.0457	1.200	H
ATOM	1095	HB3	LEU	137	48.142	9.515	46.603	0.0457	1.200	H
ATOM	1096	CG	LEU	137	49.347	11.207	46.156	0.3531	1.700	C
ATOM	1097	HG	LEU	137	49.641	11.763	45.272	-0.0361	1.200	H
ATOM	1098	CD1	LEU	137	48.207	11.908	46.842	-0.4121	1.700	C
ATOM	1099	HD11	LEU	137	48.505	12.923	47.106	0.1000	1.200	H
ATOM	1100	HD12	LEU	137	47.351	11.972	46.169	0.1000	1.200	H
ATOM	1101	HD13	LEU	137	47.910	11.386	47.753	0.1000	1.200	H
ATOM	1102	CD2	LEU	137	50.487	11.173	47.124	-0.4121	1.700	C
ATOM	1103	HD21	LEU	137	50.795	12.189	47.376	0.1000	1.200	H
ATOM	1104	HD22	LEU	137	50.207	10.645	48.036	0.1000	1.200	H
ATOM	1105	HD23	LEU	137	51.331	10.670	46.655	0.1000	1.200	H
ATOM	1106	C	LEU	137	48.764	7.356	45.392	0.5973	1.700	C
ATOM	1107	O	LEU	137	48.311	6.784	46.376	-0.5679	1.500	O
ATOM	1108	N	THR	138	48.437	7.014	44.148	-0.4157	1.550	N
ATOM	1109	H	THR	138	48.829	7.527	43.372	0.2719	1.300	H
ATOM	1110	CA	THR	138	47.568	5.862	43.859	-0.0389	1.700	C
ATOM	1111	HA	THR	138	46.773	5.798	44.604	0.1007	1.200	H
ATOM	1112	CB	THR	138	46.914	5.979	42.442	0.3654	1.700	C
ATOM	1113	HB	THR	138	47.691	6.122	41.689	0.0043	1.200	H
ATOM	1114	CG2	THR	138	46.113	4.746	42.087	-0.2438	1.700	C
ATOM	1115	HG21	THR	138	45.601	4.911	41.139	0.0642	1.200	H
ATOM	1116	HG22	THR	138	46.769	3.884	41.967	0.0642	1.200	H
ATOM	1117	HG23	THR	138	45.374	4.539	42.862	0.0642	1.200	H
ATOM	1118	OG1	THR	138	46.036	7.102	42.416	-0.6761	1.500	O
ATOM	1119	HG1	THR	138	46.555	7.910	42.376	0.4102	1.200	H
ATOM	1120	C	THR	138	48.426	4.604	43.907	0.5973	1.700	C
ATOM	1121	O	THR	138	49.355	4.462	43.127	-0.5679	1.500	O
ATOM	1122	N	PHE	139	48.137	3.709	44.838	-0.4157	1.550	N
ATOM	1123	H	PHE	139	47.360	3.854	45.465	0.2719	1.300	H
ATOM	1124	CA	PHE	139	48.914	2.479	44.962	-0.0024	1.700	C

ATOM	1125	HA	PHE	139	49.965	2.758	44.994	0.0978	1.200	H
ATOM	1126	CB	PHE	139	48.512	1.711	46.227	-0.0343	1.700	C
ATOM	1127	HB2	PHE	139	48.550	2.389	47.078	0.0295	1.200	H
ATOM	1128	HB3	PHE	139	47.480	1.370	46.125	0.0295	1.200	H
ATOM	1129	CG	PHE	139	49.402	0.535	46.541	0.0118	1.700	C
ATOM	1130	CD1	PHE	139	50.771	0.588	46.292	-0.1256	1.700	C
ATOM	1131	HD1	PHE	139	51.233	1.465	45.871	0.1330	1.200	H
ATOM	1132	CE1	PHE	139	51.602	-0.467	46.646	-0.1704	1.700	C
ATOM	1133	HE1	PHE	139	52.664	-0.404	46.499	0.1430	1.200	H
ATOM	1134	CZ	PHE	139	51.071	-1.582	47.247	-0.1072	1.700	C
ATOM	1135	HZ	PHE	139	51.716	-2.399	47.537	0.1297	1.200	H
ATOM	1136	CE2	PHE	139	49.709	-1.658	47.496	-0.1704	1.700	C
ATOM	1137	HE2	PHE	139	49.296	-2.539	47.966	0.1430	1.200	H
ATOM	1138	CD2	PHE	139	48.880	-0.607	47.145	-0.1256	1.700	C
ATOM	1139	HD2	PHE	139	47.823	-0.672	47.359	0.1330	1.200	H
ATOM	1140	C	PHE	139	48.614	1.666	43.725	0.5973	1.700	C
ATOM	1141	O	PHE	139	47.454	1.528	43.349	-0.5679	1.500	O
ATOM	1142	N	GLY	140	49.666	1.223	43.050	-0.4157	1.550	N
ATOM	1143	H	GLY	140	50.600	1.389	43.398	0.2719	1.300	H
ATOM	1144	CA	GLY	140	49.511	0.446	41.843	-0.0252	1.700	C
ATOM	1145	HA2	GLY	140	50.004	-0.515	41.989	0.0698	1.200	H
ATOM	1146	HA3	GLY	140	48.468	0.258	41.607	0.0698	1.200	H
ATOM	1147	C	GLY	140	50.185	1.168	40.703	0.5973	1.700	C
ATOM	1148	O	GLY	140	50.745	0.547	39.814	-0.5679	1.500	O
ATOM	1149	N	TRP	141	50.145	2.493	40.725	-0.4157	1.550	N
ATOM	1150	H	TRP	141	49.690	2.976	41.487	0.2719	1.300	H
ATOM	1151	CA	TRP	141	50.765	3.296	39.669	-0.0275	1.700	C
ATOM	1152	HA	TRP	141	50.481	2.891	38.697	0.1123	1.200	H
ATOM	1153	CB	TRP	141	50.284	4.749	39.766	-0.0050	1.700	C
ATOM	1154	HB2	TRP	141	49.202	4.767	39.629	0.0339	1.200	H
ATOM	1155	HB3	TRP	141	50.492	5.126	40.767	0.0339	1.200	H
ATOM	1156	CG	TRP	141	50.888	5.675	38.770	-0.1415	1.700	C
ATOM	1157	CD1	TRP	141	51.576	6.819	39.044	-0.1638	1.700	C
ATOM	1158	HD1	TRP	141	51.527	7.305	39.976	0.2062	1.200	H
ATOM	1159	NE1	TRP	141	51.953	7.428	37.864	-0.3418	1.550	N
ATOM	1160	HE1	TRP	141	52.448	8.303	37.822	0.3412	1.300	H
ATOM	1161	CE2	TRP	141	51.504	6.683	36.802	0.1380	1.700	C
ATOM	1162	CZ2	TRP	141	51.630	6.901	35.422	-0.2601	1.700	C
ATOM	1163	HZ2	TRP	141	52.158	7.763	35.040	0.1572	1.200	H
ATOM	1164	CH2	TRP	141	51.066	5.982	34.571	-0.1134	1.700	C
ATOM	1165	HH2	TRP	141	51.170	6.156	33.517	0.1417	1.200	H
ATOM	1166	CZ3	TRP	141	50.391	4.867	35.063	-0.1972	1.700	C
ATOM	1167	HZ3	TRP	141	49.954	4.160	34.374	0.1447	1.200	H
ATOM	1168	CE3	TRP	141	50.263	4.645	36.444	-0.2387	1.700	C
ATOM	1169	HE3	TRP	141	49.731	3.779	36.808	0.1700	1.200	H
ATOM	1170	CD2	TRP	141	50.829	5.568	37.330	0.1243	1.700	C
ATOM	1171	C	TRP	141	52.276	3.192	39.851	0.5973	1.700	C
ATOM	1172	O	TRP	141	52.837	3.669	40.846	-0.5679	1.500	O
ATOM	1173	N	CYS	142	52.922	2.539	38.894	-0.4157	1.550	N
ATOM	1174	H	CYS	142	52.419	2.161	38.106	0.2719	1.300	H
ATOM	1175	CA	CYS	142	54.350	2.313	38.959	0.0213	1.700	C
ATOM	1176	HA	CYS	142	54.637	2.273	40.006	0.1124	1.200	H
ATOM	1177	CB	CYS	142	54.683	0.947	38.369	-0.1231	1.700	C
ATOM	1178	HB2	CYS	142	54.470	0.957	37.302	0.1112	1.200	H
ATOM	1179	HB3	CYS	142	55.747	0.743	38.505	0.1112	1.200	H
ATOM	1180	SG	CYS	142	53.777	-0.384	39.120	-0.3119	1.800	S
ATOM	1181	HG	CYS	142	52.560	0.073	38.821	0.1933	1.200	H
ATOM	1182	C	CYS	142	55.222	3.367	38.313	0.5973	1.700	C
ATOM	1183	O	CYS	142	56.186	3.032	37.623	-0.5679	1.500	O
ATOM	1184	N	TYR	143	54.887	4.635	38.504	-0.4157	1.550	N
ATOM	1185	H	TYR	143	54.082	4.875	39.066	0.2719	1.300	H
ATOM	1186	CA	TYR	143	55.709	5.715	37.981	-0.0014	1.700	C
ATOM	1187	HA	TYR	143	56.692	5.340	37.706	0.0876	1.200	H
ATOM	1188	CB	TYR	143	55.099	6.376	36.754	-0.0152	1.700	C
ATOM	1189	HB2	TYR	143	54.037	6.470	36.895	0.0295	1.200	H
ATOM	1190	HB3	TYR	143	55.508	7.381	36.654	0.0295	1.200	H
ATOM	1191	CG	TYR	143	55.362	5.643	35.469	-0.0011	1.700	C
ATOM	1192	CD1	TYR	143	56.516	5.872	34.741	-0.1906	1.700	C
ATOM	1193	HD1	TYR	143	57.245	6.582	35.101	0.1699	1.200	H
ATOM	1194	CE1	TYR	143	56.751	5.205	33.538	-0.2341	1.700	C
ATOM	1195	HE1	TYR	143	57.662	5.388	32.985	0.1656	1.200	H
ATOM	1196	CZ	TYR	143	55.811	4.310	33.065	0.3226	1.700	C
ATOM	1197	OH	TYR	143	56.015	3.647	31.871	-0.5579	1.500	O
ATOM	1198	HH	TYR	143	56.837	3.901	31.445	0.3992	1.200	H
ATOM	1199	CE2	TYR	143	54.661	4.074	33.774	-0.2341	1.700	C
ATOM	1200	HE2	TYR	143	53.932	3.366	33.406	0.1656	1.200	H
ATOM	1201	CD2	TYR	143	54.446	4.736	34.968	-0.1906	1.700	C

ATOM	1202	HD2	TYR	143	53.533	4.543	35.514	0.1699	1.200	H
ATOM	1203	C	TYR	143	55.900	6.742	39.068	0.5973	1.700	C
ATOM	1204	O	TYR	143	55.055	6.918	39.953	-0.5679	1.500	O
ATOM	1205	N	LYS	144	57.076	7.342	39.060	-0.3479	1.550	N
ATOM	1206	H	LYS	144	57.745	7.117	38.335	0.2747	1.300	H
ATOM	1207	CA	LYS	144	57.418	8.379	40.008	-0.2400	1.700	C
ATOM	1208	HA	LYS	144	56.529	8.820	40.462	0.1426	1.200	H
ATOM	1209	CB	LYS	144	58.337	7.825	41.081	-0.0094	1.700	C
ATOM	1210	HB2	LYS	144	58.656	8.636	41.736	0.0362	1.200	H
ATOM	1211	HB3	LYS	144	57.769	7.115	41.683	0.0362	1.200	H
ATOM	1212	CG	LYS	144	59.558	7.136	40.514	0.0187	1.700	C
ATOM	1213	HG2	LYS	144	59.248	6.313	39.876	0.0103	1.200	H
ATOM	1214	HG3	LYS	144	60.156	7.837	39.940	0.0103	1.200	H
ATOM	1215	CD	LYS	144	60.395	6.540	41.610	-0.0479	1.700	C
ATOM	1216	HD2	LYS	144	60.797	7.325	42.220	0.0621	1.200	H
ATOM	1217	HD3	LYS	144	59.792	5.873	42.227	0.0621	1.200	H
ATOM	1218	CE	LYS	144	61.538	5.764	41.005	-0.0143	1.700	C
ATOM	1219	HE2	LYS	144	61.163	5.030	40.315	0.1135	1.200	H
ATOM	1220	HE3	LYS	144	62.131	6.462	40.412	0.1135	1.200	H
ATOM	1221	NZ	LYS	144	62.410	5.210	42.059	-0.3854	1.550	N
ATOM	1222	HZ1	LYS	144	62.735	5.951	42.663	0.3400	1.300	H
ATOM	1223	HZ2	LYS	144	61.886	4.535	42.604	0.3400	1.300	H
ATOM	1224	HZ3	LYS	144	63.202	4.745	41.640	0.3400	1.300	H
ATOM	1225	C	LYS	144	58.140	9.433	39.192	0.7341	1.700	C
ATOM	1226	O	LYS	144	58.546	9.195	38.033	-0.5894	1.500	O
ATOM	1227	N	LEU	145	58.240	10.622	39.762	-0.4157	1.550	N
ATOM	1228	H	LEU	145	57.862	10.777	40.685	0.2719	1.300	H
ATOM	1229	CA	LEU	145	58.920	11.712	39.088	-0.0518	1.700	C
ATOM	1230	HA	LEU	145	59.027	11.457	38.071	0.0922	1.200	H
ATOM	1231	CB	LEU	145	58.071	12.980	39.157	-0.1102	1.700	C
ATOM	1232	HB2	LEU	145	58.056	13.393	40.137	0.0457	1.200	H
ATOM	1233	HB3	LEU	145	58.565	13.725	38.549	0.0457	1.200	H
ATOM	1234	CG	LEU	145	56.685	12.761	38.535	0.3531	1.700	C
ATOM	1235	HG	LEU	145	56.121	12.044	39.134	-0.0361	1.200	H
ATOM	1236	CD1	LEU	145	55.902	14.057	38.541	-0.4121	1.700	C
ATOM	1237	HD11	LEU	145	54.944	13.920	38.041	0.1000	1.200	H
ATOM	1238	HD12	LEU	145	55.717	14.370	39.569	0.1000	1.200	H
ATOM	1239	HD13	LEU	145	56.476	14.831	38.036	0.1000	1.200	H
ATOM	1240	CD2	LEU	145	56.825	12.207	37.136	-0.4121	1.700	C
ATOM	1241	HD21	LEU	145	55.870	12.287	36.615	0.1000	1.200	H
ATOM	1242	HD22	LEU	145	57.573	12.763	36.571	0.1000	1.200	H
ATOM	1243	HD23	LEU	145	57.076	11.150	37.156	0.1000	1.200	H
ATOM	1244	C	LEU	145	60.283	11.869	39.747	0.5973	1.700	C
ATOM	1245	O	LEU	145	60.398	12.056	40.962	-0.5679	1.500	O
ATOM	1246	N	VAL	146	61.313	11.710	38.929	-0.4157	1.550	N
ATOM	1247	H	VAL	146	61.144	11.545	37.946	0.2719	1.300	H
ATOM	1248	CA	VAL	146	62.704	11.768	39.369	-0.0875	1.700	C
ATOM	1249	HA	VAL	146	62.725	11.769	40.453	0.0969	1.200	H
ATOM	1250	CB	VAL	146	63.424	10.462	38.955	0.2985	1.700	C
ATOM	1251	HB	VAL	146	63.330	10.350	37.875	-0.0297	1.200	H
ATOM	1252	CG1	VAL	146	64.882	10.530	39.287	-0.3192	1.700	C
ATOM	1253	HG11	VAL	146	65.352	9.573	39.061	0.0791	1.200	H
ATOM	1254	HG12	VAL	146	65.391	11.284	38.687	0.0791	1.200	H
ATOM	1255	HG13	VAL	146	65.022	10.751	40.346	0.0791	1.200	H
ATOM	1256	CG2	VAL	146	62.773	9.272	39.631	-0.3192	1.700	C
ATOM	1257	HG21	VAL	146	63.304	8.354	39.385	0.0791	1.200	H
ATOM	1258	HG22	VAL	146	62.806	9.399	40.712	0.0791	1.200	H
ATOM	1259	HG23	VAL	146	61.739	9.184	39.312	0.0791	1.200	H
ATOM	1260	C	VAL	146	63.459	12.955	38.764	0.5973	1.700	C
ATOM	1261	O	VAL	146	63.488	13.123	37.529	-0.5679	1.500	O
ATOM	1262	N	PRO	147	64.040	13.811	39.629	-0.2548	1.550	N
ATOM	1263	CD	PRO	147	63.744	13.786	41.070	0.0192	1.700	C
ATOM	1264	HD2	PRO	147	64.279	12.967	41.552	0.0391	1.200	H
ATOM	1265	HD3	PRO	147	62.673	13.727	41.247	0.0391	1.200	H
ATOM	1266	CG	PRO	147	64.298	15.126	41.539	0.0189	1.700	C
ATOM	1267	HG2	PRO	147	64.645	15.067	42.568	0.0213	1.200	H
ATOM	1268	HG3	PRO	147	63.553	15.912	41.440	0.0213	1.200	H
ATOM	1269	CB	PRO	147	65.429	15.379	40.633	-0.0070	1.700	C
ATOM	1270	HB2	PRO	147	66.263	14.718	40.876	0.0253	1.200	H
ATOM	1271	HB3	PRO	147	65.743	16.423	40.658	0.0253	1.200	H
ATOM	1272	CA	PRO	147	64.817	15.010	39.302	-0.0266	1.700	C
ATOM	1273	HA	PRO	147	64.174	15.814	39.004	0.0641	1.200	H
ATOM	1274	C	PRO	147	65.879	14.837	38.224	0.5896	1.700	C
ATOM	1275	O	PRO	147	66.702	13.913	38.271	-0.5748	1.500	O
ATOM	1276	N	VAL	148	65.880	15.806	37.312	-0.3821	1.550	N
ATOM	1277	H	VAL	148	65.313	16.602	37.475	0.2681	1.300	H
ATOM	1278	CA	VAL	148	66.768	15.879	36.170	-0.3438	1.700	C

ATOM	1279	HA	VAL	148	66.607	16.838	35.679	0.1438	1.200	H
ATOM	1280	CB	VAL	148	68.246	15.797	36.596	0.1940	1.700	C
ATOM	1281	HB	VAL	148	68.461	14.966	37.258	0.0308	1.200	H
ATOM	1282	CG1	VAL	148	69.148	15.603	35.391	-0.3064	1.700	C
ATOM	1283	HG11	VAL	148	70.155	15.947	35.626	0.0836	1.200	H
ATOM	1284	HG12	VAL	148	69.247	14.553	35.123	0.0836	1.200	H
ATOM	1285	HG13	VAL	148	68.784	16.177	34.538	0.0836	1.200	H
ATOM	1286	CG2	VAL	148	68.631	17.082	37.320	-0.3064	1.700	C
ATOM	1287	HG21	VAL	148	69.678	17.039	37.622	0.0836	1.200	H
ATOM	1288	HG22	VAL	148	68.481	17.942	36.666	0.0836	1.200	H
ATOM	1289	HG23	VAL	148	68.023	17.203	38.217	0.0836	1.200	H
ATOM	1290	C	VAL	148	66.405	14.819	35.155	0.8350	1.700	C
ATOM	1291	O	VAL	148	65.508	15.040	34.342	-0.8173	1.500	O
ATOM	1292	OXT	VAL	148	67.036	13.766	35.100	-0.8173	1.500	O
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ATOM	1293	N	ARG	178	62.227	25.520	38.714	0.1305	1.550	N
ATOM	1294	H1	ARG	178	61.474	25.050	38.231	0.2083	1.300	H
ATOM	1295	H2	ARG	178	63.004	25.627	38.076	0.2083	1.300	H
ATOM	1296	H3	ARG	178	61.918	26.431	39.023	0.2083	1.300	H
ATOM	1297	CA	ARG	178	62.650	24.722	39.862	-0.0223	1.700	C
ATOM	1298	HA	ARG	178	63.447	25.251	40.384	0.1242	1.200	H
ATOM	1299	CB	ARG	178	61.471	24.520	40.826	0.0118	1.700	C
ATOM	1300	HB2	ARG	178	61.126	25.494	41.176	0.0226	1.200	H
ATOM	1301	HB3	ARG	178	60.651	24.014	40.312	0.0226	1.200	H
ATOM	1302	CG	ARG	178	61.927	23.685	42.018	0.0236	1.700	C
ATOM	1303	HG2	ARG	178	62.121	22.643	42.100	0.0309	1.200	H
ATOM	1304	HG3	ARG	178	62.724	24.221	42.537	0.0309	1.200	H
ATOM	1305	CD	ARG	178	60.756	23.485	42.975	0.0935	1.700	C
ATOM	1306	HD2	ARG	178	60.399	24.459	43.314	0.0527	1.200	H
ATOM	1307	HD3	ARG	178	59.946	22.973	42.451	0.0527	1.200	H
ATOM	1308	NE	ARG	178	61.162	22.677	44.147	-0.5650	1.550	N
ATOM	1309	HE	ARG	178	62.117	22.351	44.191	0.3592	1.300	H
ATOM	1310	CZ	ARG	178	60.326	22.359	45.132	0.8281	1.700	C
ATOM	1311	NH1	ARG	178	59.054	22.748	45.130	-0.8693	1.550	N
ATOM	1312	HH11	ARG	178	58.698	23.314	44.376	0.4494	1.300	H
ATOM	1313	HH12	ARG	178	58.449	22.492	45.896	0.4494	1.300	H
ATOM	1314	NH2	ARG	178	60.797	21.628	46.138	-0.8693	1.550	N
ATOM	1315	HH21	ARG	178	60.194	21.376	46.909	0.4494	1.300	H
ATOM	1316	HH22	ARG	178	61.785	21.463	46.201	0.4494	1.300	H
ATOM	1317	C	ARG	178	63.203	23.374	39.389	0.7214	1.700	C
ATOM	1318	O	ARG	178	63.796	23.280	38.305	-0.6013	1.500	O
ATOM	1319	N	GLU	179	62.984	22.340	40.198	-0.5163	1.550	N
ATOM	1320	H	GLU	179	62.132	22.359	40.714	0.2936	1.300	H
ATOM	1321	CA	GLU	179	63.443	20.982	39.921	0.0397	1.700	C
ATOM	1322	HA	GLU	179	64.526	21.001	39.782	0.1105	1.200	H
ATOM	1323	CB	GLU	179	63.105	20.099	41.125	0.0560	1.700	C
ATOM	1324	HB2	GLU	179	63.008	20.729	42.007	-0.0173	1.200	H
ATOM	1325	HB3	GLU	179	62.138	19.617	40.971	-0.0173	1.200	H
ATOM	1326	CG	GLU	179	64.141	19.054	41.518	0.0136	1.700	C
ATOM	1327	HG2	GLU	179	64.216	18.316	40.718	-0.0425	1.200	H
ATOM	1328	HG3	GLU	179	65.110	19.542	41.634	-0.0425	1.200	H
ATOM	1329	CD	GLU	179	63.775	18.350	42.827	0.8054	1.700	C
ATOM	1330	OE1	GLU	179	62.570	18.290	43.159	-0.8188	1.500	O
ATOM	1331	OE2	GLU	179	64.686	17.864	43.533	-0.8188	1.500	O
ATOM	1332	C	GLU	179	62.765	20.427	38.670	0.5366	1.700	C
ATOM	1333	O	GLU	179	61.534	20.448	38.569	-0.5819	1.500	O
ATOM	1334	N	VAL	180	63.582	19.990	37.709	-0.4157	1.550	N
ATOM	1335	H	VAL	180	64.580	20.014	37.861	0.2719	1.300	H
ATOM	1336	CA	VAL	180	63.117	19.395	36.451	-0.0875	1.700	C
ATOM	1337	HA	VAL	180	62.178	19.852	36.134	0.0969	1.200	H
ATOM	1338	CB	VAL	180	64.171	19.543	35.341	0.2985	1.700	C
ATOM	1339	HB	VAL	180	65.095	19.051	35.650	-0.0297	1.200	H
ATOM	1340	CG1	VAL	180	63.689	18.884	34.061	-0.3192	1.700	C
ATOM	1341	HG11	VAL	180	64.438	19.016	33.280	0.0791	1.200	H
ATOM	1342	HG12	VAL	180	63.552	17.811	34.200	0.0791	1.200	H
ATOM	1343	HG13	VAL	180	62.751	19.332	33.734	0.0791	1.200	H
ATOM	1344	CG2	VAL	180	64.482	21.016	35.108	-0.3192	1.700	C
ATOM	1345	HG21	VAL	180	64.978	21.444	35.979	0.0791	1.200	H
ATOM	1346	HG22	VAL	180	65.151	21.119	34.253	0.0791	1.200	H
ATOM	1347	HG23	VAL	180	63.563	21.567	34.907	0.0791	1.200	H
ATOM	1348	C	VAL	180	62.919	17.911	36.733	0.5973	1.700	C
ATOM	1349	O	VAL	180	63.813	17.264	37.256	-0.5679	1.500	O
ATOM	1350	N	LEU	181	61.768	17.360	36.366	-0.4157	1.550	N
ATOM	1351	H	LEU	181	61.072	17.907	35.883	0.2719	1.300	H
ATOM	1352	CA	LEU	181	61.482	15.959	36.652	-0.0518	1.700	C
ATOM	1353	HA	LEU	181	62.327	15.488	37.154	0.0922	1.200	H
ATOM	1354	CB	LEU	181	60.290	15.883	37.592	-0.1102	1.700	C

ATOM	1355	HB2	LEU	181	59.425	16.245	37.039	0.0457	1.200	H
ATOM	1356	HB3	LEU	181	60.131	14.838	37.836	0.0457	1.200	H
ATOM	1357	CG	LEU	181	60.461	16.680	38.870	0.3531	1.700	C
ATOM	1358	HG	LEU	181	60.877	17.665	38.667	-0.0361	1.200	H
ATOM	1359	CD1	LEU	181	59.126	16.894	39.465	-0.4121	1.700	C
ATOM	1360	HD11	LEU	181	59.219	17.836	39.988	0.1000	1.200	H
ATOM	1361	HD12	LEU	181	58.357	17.046	38.706	0.1000	1.200	H
ATOM	1362	HD13	LEU	181	58.838	16.059	40.103	0.1000	1.200	H
ATOM	1363	CD2	LEU	181	61.355	15.959	39.833	-0.4121	1.700	C
ATOM	1364	HD21	LEU	181	62.341	15.994	39.429	0.1000	1.200	H
ATOM	1365	HD22	LEU	181	61.351	16.468	40.797	0.1000	1.200	H
ATOM	1366	HD23	LEU	181	61.039	14.925	39.969	0.1000	1.200	H
ATOM	1367	C	LEU	181	61.183	15.122	35.427	0.5973	1.700	C
ATOM	1368	O	LEU	181	60.878	15.653	34.358	-0.5679	1.500	O
ATOM	1369	N	GLU	182	61.267	13.804	35.601	-0.5163	1.550	N
ATOM	1370	H	GLU	182	61.586	13.440	36.488	0.2936	1.300	H
ATOM	1371	CA	GLU	182	60.967	12.840	34.540	0.0397	1.700	C
ATOM	1372	HA	GLU	182	60.422	13.332	33.744	0.1105	1.200	H
ATOM	1373	CB	GLU	182	62.222	12.169	34.004	0.0560	1.700	C
ATOM	1374	HB2	GLU	182	62.685	11.678	34.862	-0.0173	1.200	H
ATOM	1375	HB3	GLU	182	61.924	11.381	33.316	-0.0173	1.200	H
ATOM	1376	CG	GLU	182	63.217	13.008	33.312	0.0136	1.700	C
ATOM	1377	HG2	GLU	182	62.821	13.396	32.387	-0.0425	1.200	H
ATOM	1378	HG3	GLU	182	63.416	13.870	33.942	-0.0425	1.200	H
ATOM	1379	CD	GLU	182	64.481	12.227	33.149	0.8054	1.700	C
ATOM	1380	OE1	GLU	182	64.990	11.763	34.190	-0.8188	1.500	O
ATOM	1381	OE2	GLU	182	64.942	12.030	32.005	-0.8188	1.500	O
ATOM	1382	C	GLU	182	60.139	11.709	35.114	0.5366	1.700	C
ATOM	1383	O	GLU	182	60.171	11.441	36.321	-0.5819	1.500	O
ATOM	1384	N	TRP	183	59.459	11.014	34.216	-0.4157	1.550	N
ATOM	1385	H	TRP	183	59.526	11.270	33.240	0.2719	1.300	H
ATOM	1386	CA	TRP	183	58.654	9.856	34.561	-0.0275	1.700	C
ATOM	1387	HA	TRP	183	58.176	9.988	35.531	0.1123	1.200	H
ATOM	1388	CB	TRP	183	57.590	9.621	33.491	-0.0050	1.700	C
ATOM	1389	HB2	TRP	183	57.966	10.051	32.579	0.0339	1.200	H
ATOM	1390	HB3	TRP	183	57.405	8.554	33.368	0.0339	1.200	H
ATOM	1391	CG	TRP	183	56.298	10.308	33.722	-0.1415	1.700	C
ATOM	1392	CD1	TRP	183	55.358	9.988	34.660	-0.1638	1.700	C
ATOM	1393	HD1	TRP	183	55.466	9.213	35.403	0.2062	1.200	H
ATOM	1394	NE1	TRP	183	54.227	10.733	34.464	-0.3418	1.550	N
ATOM	1395	HE1	TRP	183	53.380	10.641	35.009	0.3412	1.300	H
ATOM	1396	CE2	TRP	183	54.422	11.572	33.397	0.1380	1.700	C
ATOM	1397	CZ2	TRP	183	53.567	12.512	32.821	-0.2601	1.700	C
ATOM	1398	HZ2	TRP	183	52.572	12.655	33.206	0.1572	1.200	H
ATOM	1399	CH2	TRP	183	54.030	13.218	31.742	-0.1134	1.700	C
ATOM	1400	HH2	TRP	183	53.385	13.940	31.268	0.1417	1.200	H
ATOM	1401	CZ3	TRP	183	55.313	13.013	31.235	-0.1972	1.700	C
ATOM	1402	HZ3	TRP	183	55.654	13.606	30.400	0.1447	1.200	H
ATOM	1403	CE3	TRP	183	56.170	12.077	31.810	-0.2387	1.700	C
ATOM	1404	HE3	TRP	183	57.172	11.948	31.442	0.1700	1.200	H
ATOM	1405	CD2	TRP	183	55.720	11.338	32.911	0.1243	1.700	C
ATOM	1406	C	TRP	183	59.594	8.638	34.600	0.5973	1.700	C
ATOM	1407	O	TRP	183	60.215	8.285	33.579	-0.5679	1.500	O
ATOM	1408	N	ARG	184	59.693	8.003	35.767	-0.3479	1.550	N
ATOM	1409	H	ARG	184	59.175	8.347	36.560	0.2747	1.300	H
ATOM	1410	CA	ARG	184	60.538	6.827	35.953	-0.2637	1.700	C
ATOM	1411	HA	ARG	184	60.997	6.542	35.009	0.1560	1.200	H
ATOM	1412	CB	ARG	184	61.625	7.132	36.972	-0.0007	1.700	C
ATOM	1413	HB2	ARG	184	61.180	7.699	37.786	0.0327	1.200	H
ATOM	1414	HB3	ARG	184	62.007	6.201	37.396	0.0327	1.200	H
ATOM	1415	CG	ARG	184	62.770	7.902	36.401	0.0390	1.700	C
ATOM	1416	HG2	ARG	184	62.393	8.753	35.829	0.0285	1.200	H
ATOM	1417	HG3	ARG	184	63.407	8.260	37.200	0.0285	1.200	H
ATOM	1418	CD	ARG	184	63.608	6.987	35.548	0.0486	1.700	C
ATOM	1419	HD2	ARG	184	64.464	6.638	36.128	0.0687	1.200	H
ATOM	1420	HD3	ARG	184	63.042	6.106	35.245	0.0687	1.200	H
ATOM	1421	NE	ARG	184	64.079	7.641	34.331	-0.5295	1.550	N
ATOM	1422	HE	ARG	184	63.769	7.254	33.452	0.3456	1.300	H
ATOM	1423	CZ	ARG	184	64.884	8.701	34.306	0.8076	1.700	C
ATOM	1424	NH1	ARG	184	65.316	9.249	35.444	-0.8627	1.550	N
ATOM	1425	HH11	ARG	184	65.819	10.128	35.388	0.4478	1.300	H
ATOM	1426	HH12	ARG	184	64.991	8.907	36.332	0.4478	1.300	H
ATOM	1427	NH2	ARG	184	65.284	9.194	33.133	-0.8627	1.550	N
ATOM	1428	HH21	ARG	184	65.795	10.071	33.122	0.4478	1.300	H
ATOM	1429	HH22	ARG	184	64.924	8.822	32.267	0.4478	1.300	H
ATOM	1430	C	ARG	184	59.715	5.655	36.442	0.7341	1.700	C
ATOM	1431	O	ARG	184	59.072	5.730	37.482	-0.5894	1.500	O

ATOM	1432	N	PHE	185	59.718	4.574	35.685	-0.4157	1.550	N
ATOM	1433	H	PHE	185	60.253	4.565	34.825	0.2719	1.300	H
ATOM	1434	CA	PHE	185	58.975	3.386	36.067	-0.0024	1.700	C
ATOM	1435	HA	PHE	185	57.971	3.683	36.345	0.0978	1.200	H
ATOM	1436	CB	PHE	185	58.905	2.421	34.890	-0.0343	1.700	C
ATOM	1437	HB2	PHE	185	58.487	2.954	34.036	0.0295	1.200	H
ATOM	1438	HB3	PHE	185	59.910	2.101	34.608	0.0295	1.200	H
ATOM	1439	CG	PHE	185	58.049	1.214	35.146	0.0118	1.700	C
ATOM	1440	CD1	PHE	185	58.579	0.079	35.737	-0.1256	1.700	C
ATOM	1441	HD1	PHE	185	59.625	0.044	36.005	0.1330	1.200	H
ATOM	1442	CE1	PHE	185	57.781	-1.027	35.977	-0.1704	1.700	C
ATOM	1443	HE1	PHE	185	58.197	-1.923	36.400	0.1430	1.200	H
ATOM	1444	CZ	PHE	185	56.444	-1.005	35.625	-0.1072	1.700	C
ATOM	1445	HZ	PHE	185	55.824	-1.871	35.802	0.1297	1.200	H
ATOM	1446	CE2	PHE	185	55.911	0.114	35.039	-0.1704	1.700	C
ATOM	1447	HE2	PHE	185	54.885	0.111	34.714	0.1430	1.200	H
ATOM	1448	CD2	PHE	185	56.707	1.216	34.801	-0.1256	1.700	C
ATOM	1449	HD2	PHE	185	56.274	2.082	34.337	0.1330	1.200	H
ATOM	1450	C	PHE	185	59.693	2.702	37.205	0.5973	1.700	C
ATOM	1451	O	PHE	185	60.858	2.376	37.075	-0.5679	1.500	O
ATOM	1452	N	ASP	186	59.031	2.529	38.335	-0.5163	1.550	N
ATOM	1453	H	ASP	186	58.061	2.803	38.407	0.2936	1.300	H
ATOM	1454	CA	ASP	186	59.651	1.832	39.448	0.0381	1.700	C
ATOM	1455	HA	ASP	186	60.571	1.343	39.124	0.0880	1.200	H
ATOM	1456	CB	ASP	186	60.027	2.758	40.600	-0.0303	1.700	C
ATOM	1457	HB2	ASP	186	60.797	3.366	40.161	-0.0122	1.200	H
ATOM	1458	HB3	ASP	186	59.191	3.362	40.933	-0.0122	1.200	H
ATOM	1459	CG	ASP	186	60.701	2.011	41.767	0.7994	1.700	C
ATOM	1460	OD1	ASP	186	61.082	0.834	41.598	-0.8014	1.500	O
ATOM	1461	OD2	ASP	186	60.839	2.595	42.873	-0.8014	1.500	O
ATOM	1462	C	ASP	186	58.717	0.736	39.922	0.5366	1.700	C
ATOM	1463	O	ASP	186	57.872	0.928	40.796	-0.5819	1.500	O
ATOM	1464	N	SER	187	58.867	-0.404	39.269	-0.4157	1.550	N
ATOM	1465	H	SER	187	59.568	-0.434	38.544	0.2719	1.300	H
ATOM	1466	CA	SER	187	58.153	-1.648	39.513	-0.0249	1.700	C
ATOM	1467	HA	SER	187	57.243	-1.639	38.910	0.0843	1.200	H
ATOM	1468	CB	SER	187	59.078	-2.743	38.982	0.2117	1.700	C
ATOM	1469	HB2	SER	187	59.336	-2.568	37.941	0.0352	1.200	H
ATOM	1470	HB3	SER	187	60.006	-2.713	39.555	0.0352	1.200	H
ATOM	1471	OG	SER	187	58.541	-4.028	39.115	-0.6546	1.500	O
ATOM	1472	HG	SER	187	58.176	-4.124	39.999	0.4275	1.200	H
ATOM	1473	C	SER	187	57.757	-1.951	40.971	0.5973	1.700	C
ATOM	1474	O	SER	187	56.695	-2.503	41.232	-0.5679	1.500	O
ATOM	1475	N	ARG	188	58.591	-1.588	41.938	-0.3479	1.550	N
ATOM	1476	H	ARG	188	59.440	-1.080	41.729	0.2747	1.300	H
ATOM	1477	CA	ARG	188	58.262	-1.905	43.320	-0.2637	1.700	C
ATOM	1478	HA	ARG	188	57.878	-2.906	43.310	0.1560	1.200	H
ATOM	1479	CB	ARG	188	59.516	-1.974	44.168	-0.0007	1.700	C
ATOM	1480	HB2	ARG	188	59.261	-2.424	45.130	0.0327	1.200	H
ATOM	1481	HB3	ARG	188	60.204	-2.655	43.664	0.0327	1.200	H
ATOM	1482	CG	ARG	188	60.161	-0.669	44.413	0.0390	1.700	C
ATOM	1483	HG2	ARG	188	60.283	-0.126	43.498	0.0285	1.200	H
ATOM	1484	HG3	ARG	188	59.533	-0.076	45.080	0.0285	1.200	H
ATOM	1485	CD	ARG	188	61.493	-0.901	45.089	0.0486	1.700	C
ATOM	1486	HD2	ARG	188	61.854	0.046	45.490	0.0687	1.200	H
ATOM	1487	HD3	ARG	188	61.360	-1.580	45.933	0.0687	1.200	H
ATOM	1488	NE	ARG	188	62.425	-1.490	44.143	-0.5295	1.550	N
ATOM	1489	HE	ARG	188	62.270	-2.450	43.876	0.3456	1.300	H
ATOM	1490	CZ	ARG	188	63.443	-0.835	43.599	0.8076	1.700	C
ATOM	1491	NH1	ARG	188	63.673	0.445	43.920	-0.8627	1.550	N
ATOM	1492	HH11	ARG	188	63.048	0.916	44.557	0.4478	1.300	H
ATOM	1493	HH12	ARG	188	64.424	0.951	43.480	0.4478	1.300	H
ATOM	1494	NH2	ARG	188	64.203	-1.458	42.695	-0.8627	1.550	N
ATOM	1495	HH21	ARG	188	64.983	-0.977	42.275	0.4478	1.300	H
ATOM	1496	HH22	ARG	188	63.990	-2.405	42.420	0.4478	1.300	H
ATOM	1497	C	ARG	188	57.208	-1.022	43.964	0.7341	1.700	C
ATOM	1498	O	ARG	188	56.766	-1.261	45.101	-0.5894	1.500	O
ATOM	1499	N	LEU	189	56.778	-0.013	43.227	-0.4157	1.550	N
ATOM	1500	H	LEU	189	57.145	0.139	42.300	0.2719	1.300	H
ATOM	1501	CA	LEU	189	55.746	0.869	43.723	-0.0518	1.700	C
ATOM	1502	HA	LEU	189	55.981	1.151	44.747	0.0922	1.200	H
ATOM	1503	CB	LEU	189	55.662	2.127	42.847	-0.1102	1.700	C
ATOM	1504	HB2	LEU	189	55.636	1.816	41.806	0.0457	1.200	H
ATOM	1505	HB3	LEU	189	54.733	2.657	43.062	0.0457	1.200	H
ATOM	1506	CG	LEU	189	56.852	3.082	43.079	0.3531	1.700	C
ATOM	1507	HG	LEU	189	57.782	2.518	43.005	-0.0361	1.200	H
ATOM	1508	CD1	LEU	189	56.904	4.155	42.035	-0.4121	1.700	C

ATOM	1509	HD11	LEU	189	57.789	4.769	42.182	0.1000	1.200	H
ATOM	1510	HD12	LEU	189	56.932	3.710	41.040	0.1000	1.200	H
ATOM	1511	HD13	LEU	189	56.021	4.784	42.108	0.1000	1.200	H
ATOM	1512	CD2	LEU	189	56.782	3.685	44.477	-0.4121	1.700	C
ATOM	1513	HD21	LEU	189	57.570	4.431	44.593	0.1000	1.200	H
ATOM	1514	HD22	LEU	189	55.807	4.150	44.648	0.1000	1.200	H
ATOM	1515	HD23	LEU	189	56.959	2.909	45.221	0.1000	1.200	H
ATOM	1516	C	LEU	189	54.421	0.091	43.787	0.5973	1.700	C
ATOM	1517	O	LEU	189	53.488	0.494	44.476	-0.5679	1.500	O
ATOM	1518	N	ALA	190	54.360	-1.064	43.131	-0.4157	1.550	N
ATOM	1519	H	ALA	190	55.139	-1.378	42.570	0.2719	1.300	H
ATOM	1520	CA	ALA	190	53.143	-1.880	43.166	0.0337	1.700	C
ATOM	1521	HA	ALA	190	52.265	-1.233	43.195	0.0823	1.200	H
ATOM	1522	CB	ALA	190	53.049	-2.730	41.930	-0.1825	1.700	C
ATOM	1523	HB1	ALA	190	52.979	-2.095	41.053	0.0603	1.200	H
ATOM	1524	HB2	ALA	190	53.926	-3.373	41.847	0.0603	1.200	H
ATOM	1525	HB3	ALA	190	52.155	-3.349	41.966	0.0603	1.200	H
ATOM	1526	C	ALA	190	53.139	-2.755	44.420	0.5973	1.700	C
ATOM	1527	O	ALA	190	52.120	-3.335	44.798	-0.5679	1.500	O
ATOM	1528	N	PHE	191	54.267	-2.787	45.116	-0.4157	1.550	N
ATOM	1529	H	PHE	191	55.080	-2.282	44.794	0.2719	1.300	H
ATOM	1530	CA	PHE	191	54.384	-3.603	46.311	-0.0024	1.700	C
ATOM	1531	HA	PHE	191	53.479	-4.185	46.484	0.0978	1.200	H
ATOM	1532	CB	PHE	191	55.541	-4.593	46.117	-0.0343	1.700	C
ATOM	1533	HB2	PHE	191	56.479	-4.038	46.057	0.0295	1.200	H
ATOM	1534	HB3	PHE	191	55.600	-5.243	46.992	0.0295	1.200	H
ATOM	1535	CG	PHE	191	55.391	-5.454	44.888	0.0118	1.700	C
ATOM	1536	CD1	PHE	191	54.479	-6.503	44.869	-0.1256	1.700	C
ATOM	1537	HD1	PHE	191	53.911	-6.732	45.760	0.1330	1.200	H
ATOM	1538	CE1	PHE	191	54.266	-7.241	43.725	-0.1704	1.700	C
ATOM	1539	HE1	PHE	191	53.540	-8.041	43.723	0.1430	1.200	H
ATOM	1540	CZ	PHE	191	54.974	-6.942	42.571	-0.1072	1.700	C
ATOM	1541	HZ	PHE	191	54.813	-7.518	41.671	0.1297	1.200	H
ATOM	1542	CE2	PHE	191	55.889	-5.910	42.578	-0.1704	1.700	C
ATOM	1543	HE2	PHE	191	56.440	-5.671	41.680	0.1430	1.200	H
ATOM	1544	CD2	PHE	191	56.095	-5.168	43.740	-0.1256	1.700	C
ATOM	1545	HD2	PHE	191	56.805	-4.379	43.750	0.1330	1.200	H
ATOM	1546	C	PHE	191	54.618	-2.757	47.543	0.5973	1.700	C
ATOM	1547	O	PHE	191	54.539	-3.252	48.665	-0.5679	1.500	O
ATOM	1548	N	HIS	192	54.939	-1.483	47.325	-0.4157	1.550	N
ATOM	1549	H	HIS	192	55.013	-1.142	46.378	0.2719	1.300	H
ATOM	1550	CA	HIS	192	55.212	-0.540	48.406	-0.0581	1.700	C
ATOM	1551	HA	HIS	192	54.871	-0.949	49.359	0.1360	1.200	H
ATOM	1552	CB	HIS	192	56.712	-0.296	48.517	-0.0074	1.700	C
ATOM	1553	HB2	HIS	192	57.137	-0.107	47.531	0.0367	1.200	H
ATOM	1554	HB3	HIS	192	56.884	0.594	49.127	0.0367	1.200	H
ATOM	1555	CG	HIS	192	57.446	-1.415	49.165	0.1868	1.700	C
ATOM	1556	ND1	HIS	192	57.548	-1.533	50.535	-0.5432	1.550	N
ATOM	1557	CE1	HIS	192	58.200	-2.643	50.830	0.1635	1.700	C
ATOM	1558	HE1	HIS	192	58.435	-2.990	51.826	0.1435	1.200	H
ATOM	1559	NE2	HIS	192	58.525	-3.242	49.700	-0.2795	1.550	N
ATOM	1560	HE2	HIS	192	59.033	-4.111	49.626	0.3339	1.300	H
ATOM	1561	CD2	HIS	192	58.068	-2.495	48.644	-0.2207	1.700	C
ATOM	1562	HD2	HIS	192	58.158	-2.735	47.595	0.1862	1.200	H
ATOM	1563	C	HIS	192	54.554	0.808	48.224	0.5973	1.700	C
ATOM	1564	O	HIS	192	54.979	1.602	47.376	-0.5679	1.500	O
ATOM	1565	N	HIS	193	53.575	1.113	49.066	-0.4157	1.550	N
ATOM	1566	H	HIS	193	53.302	0.473	49.798	0.2719	1.300	H
ATOM	1567	CA	HIS	193	52.927	2.412	48.960	-0.0581	1.700	C
ATOM	1568	HA	HIS	193	52.783	2.630	47.902	0.1360	1.200	H
ATOM	1569	CB	HIS	193	51.573	2.399	49.652	-0.0074	1.700	C
ATOM	1570	HB2	HIS	193	51.112	1.428	49.460	0.0367	1.200	H
ATOM	1571	HB3	HIS	193	51.659	2.488	50.735	0.0367	1.200	H
ATOM	1572	CG	HIS	193	50.621	3.413	49.109	0.1868	1.700	C
ATOM	1573	ND1	HIS	193	49.394	3.665	49.682	-0.5432	1.550	N
ATOM	1574	CE1	HIS	193	48.756	4.573	48.966	0.1635	1.700	C
ATOM	1575	HE1	HIS	193	47.773	4.967	49.176	0.1435	1.200	H
ATOM	1576	NE2	HIS	193	49.527	4.920	47.954	-0.2795	1.550	N
ATOM	1577	HE2	HIS	193	49.297	5.602	47.249	0.3339	1.300	H
ATOM	1578	CD2	HIS	193	50.699	4.210	48.019	-0.2207	1.700	C
ATOM	1579	HD2	HIS	193	51.519	4.274	47.318	0.1862	1.200	H
ATOM	1580	C	HIS	193	53.827	3.488	49.586	0.5973	1.700	C
ATOM	1581	O	HIS	193	53.520	4.022	50.649	-0.5679	1.500	O
ATOM	1582	N	VAL	194	54.913	3.835	48.909	-0.4157	1.550	N
ATOM	1583	H	VAL	194	55.149	3.363	48.048	0.2719	1.300	H
ATOM	1584	CA	VAL	194	55.836	4.826	49.445	-0.0875	1.700	C
ATOM	1585	HA	VAL	194	56.280	4.405	50.350	0.0969	1.200	H

ATOM	1586	CB	VAL	194	56.951	5.113	48.459	0.2985	1.700	C
ATOM	1587	HB	VAL	194	56.543	5.593	47.567	-0.0297	1.200	H
ATOM	1588	CG1	VAL	194	57.961	6.033	49.075	-0.3192	1.700	C
ATOM	1589	HG11	VAL	194	58.825	6.137	48.418	0.0791	1.200	H
ATOM	1590	HG12	VAL	194	57.514	7.015	49.194	0.0791	1.200	H
ATOM	1591	HG13	VAL	194	58.289	5.652	50.044	0.0791	1.200	H
ATOM	1592	CG2	VAL	194	57.591	3.801	48.030	-0.3192	1.700	C
ATOM	1593	HG21	VAL	194	58.466	4.002	47.413	0.0791	1.200	H
ATOM	1594	HG22	VAL	194	57.902	3.229	48.907	0.0791	1.200	H
ATOM	1595	HG23	VAL	194	56.905	3.206	47.437	0.0791	1.200	H
ATOM	1596	C	VAL	194	55.152	6.125	49.821	0.5973	1.700	C
ATOM	1597	O	VAL	194	55.294	6.587	50.944	-0.5679	1.500	O
ATOM	1598	N	ALA	195	54.369	6.680	48.898	-0.4157	1.550	N
ATOM	1599	H	ALA	195	54.272	6.231	48.000	0.2719	1.300	H
ATOM	1600	CA	ALA	195	53.654	7.943	49.117	0.0337	1.700	C
ATOM	1601	HA	ALA	195	54.394	8.743	49.136	0.0823	1.200	H
ATOM	1602	CB	ALA	195	52.695	8.219	47.985	-0.1825	1.700	C
ATOM	1603	HB1	ALA	195	52.136	9.126	48.203	0.0603	1.200	H
ATOM	1604	HB2	ALA	195	53.256	8.359	47.062	0.0603	1.200	H
ATOM	1605	HB3	ALA	195	51.997	7.388	47.872	0.0603	1.200	H
ATOM	1606	C	ALA	195	52.909	7.981	50.422	0.5973	1.700	C
ATOM	1607	O	ALA	195	52.924	8.995	51.105	-0.5679	1.500	O
ATOM	1608	N	ARG	196	52.282	6.873	50.783	-0.3479	1.550	N
ATOM	1609	H	ARG	196	52.327	6.055	50.192	0.2747	1.300	H
ATOM	1610	CA	ARG	196	51.525	6.797	52.025	-0.2637	1.700	C
ATOM	1611	HA	ARG	196	50.934	7.697	52.161	0.1560	1.200	H
ATOM	1612	CB	ARG	196	50.611	5.583	51.990	-0.0007	1.700	C
ATOM	1613	HB2	ARG	196	50.100	5.644	51.035	0.0327	1.200	H
ATOM	1614	HB3	ARG	196	51.214	4.674	52.017	0.0327	1.200	H
ATOM	1615	CG	ARG	196	49.543	5.526	53.044	0.0390	1.700	C
ATOM	1616	HG2	ARG	196	49.979	5.559	54.043	0.0285	1.200	H
ATOM	1617	HG3	ARG	196	48.858	6.361	52.918	0.0285	1.200	H
ATOM	1618	CD	ARG	196	48.814	4.229	52.864	0.0486	1.700	C
ATOM	1619	HD2	ARG	196	48.565	4.112	51.821	0.0687	1.200	H
ATOM	1620	HD3	ARG	196	49.478	3.418	53.161	0.0687	1.200	H
ATOM	1621	NE	ARG	196	47.529	4.181	53.542	-0.5295	1.550	N
ATOM	1622	HE	ARG	196	46.951	5.009	53.505	0.3456	1.300	H
ATOM	1623	CZ	ARG	196	47.069	3.101	54.177	0.8076	1.700	C
ATOM	1624	NH1	ARG	196	47.805	1.988	54.232	-0.8627	1.550	N
ATOM	1625	HH11	ARG	196	47.452	1.167	54.696	0.4478	1.300	H
ATOM	1626	HH12	ARG	196	48.724	1.977	53.818	0.4478	1.300	H
ATOM	1627	NH2	ARG	196	45.839	3.100	54.691	-0.8627	1.550	N
ATOM	1628	HH21	ARG	196	45.260	3.924	54.610	0.4478	1.300	H
ATOM	1629	HH22	ARG	196	45.499	2.294	55.192	0.4478	1.300	H
ATOM	1630	C	ARG	196	52.463	6.688	53.214	0.7341	1.700	C
ATOM	1631	O	ARG	196	52.136	7.124	54.320	-0.5894	1.500	O
ATOM	1632	N	GLU	197	53.625	6.087	52.996	-0.5163	1.550	N
ATOM	1633	H	GLU	197	53.854	5.743	52.074	0.2936	1.300	H
ATOM	1634	CA	GLU	197	54.596	5.928	54.068	0.0397	1.700	C
ATOM	1635	HA	GLU	197	54.123	5.461	54.933	0.1105	1.200	H
ATOM	1636	CB	GLU	197	55.763	5.063	53.606	0.0560	1.700	C
ATOM	1637	HB2	GLU	197	56.276	5.491	52.753	-0.0173	1.200	H
ATOM	1638	HB3	GLU	197	56.486	5.062	54.423	-0.0173	1.200	H
ATOM	1639	CG	GLU	197	55.415	3.613	53.316	0.0136	1.700	C
ATOM	1640	HG2	GLU	197	55.037	3.164	54.236	-0.0425	1.200	H
ATOM	1641	HG3	GLU	197	54.629	3.538	52.587	-0.0425	1.200	H
ATOM	1642	CD	GLU	197	56.622	2.810	52.859	0.8054	1.700	C
ATOM	1643	OE1	GLU	197	57.766	3.307	53.004	-0.8188	1.500	O
ATOM	1644	OE2	GLU	197	56.438	1.677	52.357	-0.8188	1.500	O
ATOM	1645	C	GLU	197	55.115	7.295	54.457	0.5366	1.700	C
ATOM	1646	O	GLU	197	55.000	7.709	55.601	-0.5819	1.500	O
ATOM	1647	N	LEU	198	55.620	8.005	53.457	-0.4157	1.550	N
ATOM	1648	H	LEU	198	55.640	7.587	52.538	0.2719	1.300	H
ATOM	1649	CA	LEU	198	56.201	9.327	53.607	-0.0518	1.700	C
ATOM	1650	HA	LEU	198	56.823	9.319	54.502	0.0922	1.200	H
ATOM	1651	CB	LEU	198	57.089	9.617	52.412	-0.1102	1.700	C
ATOM	1652	HB2	LEU	198	56.433	9.771	51.552	0.0457	1.200	H
ATOM	1653	HB3	LEU	198	57.620	10.555	52.584	0.0457	1.200	H
ATOM	1654	CG	LEU	198	58.095	8.541	52.040	0.3531	1.700	C
ATOM	1655	HG	LEU	198	57.597	7.581	51.915	-0.0361	1.200	H
ATOM	1656	CD1	LEU	198	58.733	8.881	50.699	-0.4121	1.700	C
ATOM	1657	HD11	LEU	198	59.406	8.080	50.394	0.1000	1.200	H
ATOM	1658	HD12	LEU	198	57.962	9.025	49.945	0.1000	1.200	H
ATOM	1659	HD13	LEU	198	59.304	9.806	50.789	0.1000	1.200	H
ATOM	1660	CD2	LEU	198	59.125	8.407	53.137	-0.4121	1.700	C
ATOM	1661	HD21	LEU	198	59.873	7.670	52.844	0.1000	1.200	H
ATOM	1662	HD22	LEU	198	59.617	9.363	53.317	0.1000	1.200	H

ATOM	1663	HD23	LEU	198	58.655	8.061	54.058	0.1000	1.200	H
ATOM	1664	C	LEU	198	55.245	10.497	53.739	0.5973	1.700	C
ATOM	1665	O	LEU	198	55.654	11.552	54.203	-0.5679	1.500	O
ATOM	1666	N	HIS	199	54.016	10.358	53.250	-0.4157	1.550	N
ATOM	1667	H	HIS	199	53.733	9.482	52.836	0.2719	1.300	H
ATOM	1668	CA	HIS	199	53.040	11.452	53.295	-0.0581	1.700	C
ATOM	1669	HA	HIS	199	53.323	12.181	54.055	0.1360	1.200	H
ATOM	1670	CB	HIS	199	52.964	12.176	51.953	-0.0074	1.700	C
ATOM	1671	HB2	HIS	199	52.730	11.475	51.153	0.0367	1.200	H
ATOM	1672	HB3	HIS	199	52.170	12.916	51.980	0.0367	1.200	H
ATOM	1673	CG	HIS	199	54.209	12.911	51.590	0.1868	1.700	C
ATOM	1674	ND1	HIS	199	55.183	12.623	50.698	-0.5432	1.550	N
ATOM	1675	CE1	HIS	199	56.095	13.645	50.749	0.1635	1.700	C
ATOM	1676	HE1	HIS	199	57.001	13.707	50.164	0.1435	1.200	H
ATOM	1677	NE2	HIS	199	55.699	14.530	51.646	-0.2795	1.550	N
ATOM	1678	HE2	HIS	199	56.193	15.367	51.920	0.3339	1.300	H
ATOM	1679	CD2	HIS	199	54.560	14.111	52.169	-0.2207	1.700	C
ATOM	1680	HD2	HIS	199	54.028	14.600	52.969	0.1862	1.200	H
ATOM	1681	C	HIS	199	51.652	10.985	53.624	0.5973	1.700	C
ATOM	1682	O	HIS	199	50.720	11.191	52.845	-0.5679	1.500	O
ATOM	1683	N	PRO	200	51.469	10.416	54.813	-0.2548	1.550	N
ATOM	1684	CD	PRO	200	52.433	10.194	55.897	0.0192	1.700	C
ATOM	1685	HD2	PRO	200	53.153	11.007	55.985	0.0391	1.200	H
ATOM	1686	HD3	PRO	200	52.932	9.234	55.770	0.0391	1.200	H
ATOM	1687	CG	PRO	200	51.536	10.169	57.075	0.0189	1.700	C
ATOM	1688	HG2	PRO	200	51.228	11.182	57.340	0.0213	1.200	H
ATOM	1689	HG3	PRO	200	52.016	9.685	57.926	0.0213	1.200	H
ATOM	1690	CB	PRO	200	50.378	9.382	56.589	-0.0070	1.700	C
ATOM	1691	HB2	PRO	200	49.507	9.506	57.234	0.0253	1.200	H
ATOM	1692	HB3	PRO	200	50.648	8.326	56.525	0.0253	1.200	H
ATOM	1693	CA	PRO	200	50.144	9.939	55.193	-0.0266	1.700	C
ATOM	1694	HA	PRO	200	49.839	9.119	54.549	0.0641	1.200	H
ATOM	1695	C	PRO	200	49.092	11.041	55.208	0.5896	1.700	C
ATOM	1696	O	PRO	200	47.892	10.749	55.188	-0.5748	1.500	O
ATOM	1697	N	GLU	201	49.524	12.304	55.237	-0.5163	1.550	N
ATOM	1698	H	GLU	201	50.511	12.524	55.232	0.2936	1.300	H
ATOM	1699	CA	GLU	201	48.564	13.400	55.268	0.0397	1.700	C
ATOM	1700	HA	GLU	201	47.970	13.258	56.172	0.1105	1.200	H
ATOM	1701	CB	GLU	201	49.255	14.762	55.415	0.0560	1.700	C
ATOM	1702	HB2	GLU	201	48.472	15.451	55.735	-0.0173	1.200	H
ATOM	1703	HB3	GLU	201	49.974	14.746	56.235	-0.0173	1.200	H
ATOM	1704	CG	GLU	201	49.826	15.349	54.155	0.0136	1.700	C
ATOM	1705	HG2	GLU	201	49.205	15.152	53.283	-0.0425	1.200	H
ATOM	1706	HG3	GLU	201	49.845	16.433	54.282	-0.0425	1.200	H
ATOM	1707	CD	GLU	201	51.240	14.918	53.898	0.8054	1.700	C
ATOM	1708	OE1	GLU	201	51.837	14.289	54.789	-0.8188	1.500	O
ATOM	1709	OE2	GLU	201	51.765	15.210	52.800	-0.8188	1.500	O
ATOM	1710	C	GLU	201	47.570	13.369	54.085	0.5366	1.700	C
ATOM	1711	O	GLU	201	46.412	13.779	54.230	-0.5819	1.500	O
ATOM	1712	N	TYR	202	47.982	12.816	52.949	-0.4157	1.550	N
ATOM	1713	H	TYR	202	48.926	12.464	52.868	0.2719	1.300	H
ATOM	1714	CA	TYR	202	47.084	12.733	51.813	-0.0014	1.700	C
ATOM	1715	HA	TYR	202	46.472	13.633	51.766	0.0876	1.200	H
ATOM	1716	CB	TYR	202	47.879	12.617	50.530	-0.0152	1.700	C
ATOM	1717	HB2	TYR	202	48.439	11.681	50.541	0.0295	1.200	H
ATOM	1718	HB3	TYR	202	47.186	12.586	49.689	0.0295	1.200	H
ATOM	1719	CG	TYR	202	48.818	13.763	50.312	-0.0011	1.700	C
ATOM	1720	CD1	TYR	202	48.355	15.063	50.322	-0.1906	1.700	C
ATOM	1721	HD1	TYR	202	47.309	15.261	50.501	0.1699	1.200	H
ATOM	1722	CE1	TYR	202	49.211	16.136	50.087	-0.2341	1.700	C
ATOM	1723	HE1	TYR	202	48.828	17.145	50.102	0.1656	1.200	H
ATOM	1724	CZ	TYR	202	50.544	15.911	49.837	0.3226	1.700	C
ATOM	1725	OH	TYR	202	51.363	16.987	49.607	-0.5579	1.500	O
ATOM	1726	HH	TYR	202	52.281	16.724	49.520	0.3992	1.200	H
ATOM	1727	CE2	TYR	202	51.037	14.621	49.823	-0.2341	1.700	C
ATOM	1728	HE2	TYR	202	52.080	14.393	49.773	0.1656	1.200	H
ATOM	1729	CD2	TYR	202	50.170	13.552	50.063	-0.1906	1.700	C
ATOM	1730	HD2	TYR	202	50.567	12.547	50.091	0.1699	1.200	H
ATOM	1731	C	TYR	202	46.141	11.535	51.957	0.5973	1.700	C
ATOM	1732	O	TYR	202	45.340	11.255	51.074	-0.5679	1.500	O
ATOM	1733	N	PHE	203	46.256	10.811	53.063	-0.3821	1.550	N
ATOM	1734	H	PHE	203	46.899	11.101	53.780	0.2681	1.300	H
ATOM	1735	CA	PHE	203	45.405	9.647	53.329	-0.1825	1.700	C
ATOM	1736	HA	PHE	203	44.542	9.630	52.664	0.1098	1.200	H
ATOM	1737	CB	PHE	203	46.203	8.339	53.173	-0.0959	1.700	C
ATOM	1738	HB2	PHE	203	46.847	8.175	54.037	0.0443	1.200	H
ATOM	1739	HB3	PHE	203	45.503	7.503	53.130	0.0443	1.200	H

ATOM	1740	CG	PHE	203	47.097	8.312	51.987	0.0552	1.700	C
ATOM	1741	CD1	PHE	203	48.351	8.877	52.045	-0.1300	1.700	C
ATOM	1742	HD1	PHE	203	48.671	9.364	52.944	0.1408	1.200	H
ATOM	1743	CE1	PHE	203	49.176	8.907	50.923	-0.1847	1.700	C
ATOM	1744	HE1	PHE	203	50.140	9.391	50.972	0.1461	1.200	H
ATOM	1745	CZ	PHE	203	48.747	8.369	49.745	-0.0944	1.700	C
ATOM	1746	HZ	PHE	203	49.380	8.395	48.871	0.1280	1.200	H
ATOM	1747	CE2	PHE	203	47.484	7.792	49.683	-0.1847	1.700	C
ATOM	1748	HE2	PHE	203	47.124	7.386	48.749	0.1461	1.200	H
ATOM	1749	CD2	PHE	203	46.671	7.768	50.802	-0.1300	1.700	C
ATOM	1750	HD2	PHE	203	45.685	7.332	50.731	0.1408	1.200	H
ATOM	1751	C	PHE	203	44.906	9.748	54.779	0.7660	1.700	C
ATOM	1752	O	PHE	203	43.809	10.248	55.056	-0.8026	1.500	O
ATOM	1753	OXT	PHE	203	45.609	9.358	55.709	-0.8026	1.500	O
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ATOM	1754	N	ARG	71	29.767	14.413	17.375	0.1305	1.550	N
ATOM	1755	H1	ARG	71	30.431	13.996	16.740	0.2083	1.300	H
ATOM	1756	H2	ARG	71	28.849	14.405	16.954	0.2083	1.300	H
ATOM	1757	H3	ARG	71	29.749	13.881	18.233	0.2083	1.300	H
ATOM	1758	CA	ARG	71	30.161	15.790	17.668	-0.0223	1.700	C
ATOM	1759	HA	ARG	71	30.176	16.363	16.744	0.1242	1.200	H
ATOM	1760	CB	ARG	71	29.120	16.415	18.599	0.0118	1.700	C
ATOM	1761	HB2	ARG	71	28.128	16.140	18.233	0.0226	1.200	H
ATOM	1762	HB3	ARG	71	29.227	15.987	19.598	0.0226	1.200	H
ATOM	1763	CG	ARG	71	29.155	17.914	18.685	0.0236	1.700	C
ATOM	1764	HG2	ARG	71	30.149	18.207	19.027	0.0309	1.200	H
ATOM	1765	HG3	ARG	71	28.980	18.356	17.703	0.0309	1.200	H
ATOM	1766	CD	ARG	71	28.113	18.414	19.664	0.0935	1.700	C
ATOM	1767	HD2	ARG	71	27.187	18.633	19.130	0.0527	1.200	H
ATOM	1768	HD3	ARG	71	27.914	17.642	20.409	0.0527	1.200	H
ATOM	1769	NE	ARG	71	28.584	19.605	20.363	-0.5650	1.550	N
ATOM	1770	HE	ARG	71	29.454	20.012	20.054	0.3592	1.300	H
ATOM	1771	CZ	ARG	71	27.956	20.174	21.389	0.8281	1.700	C
ATOM	1772	NH1	ARG	71	26.819	19.658	21.847	-0.8693	1.550	N
ATOM	1773	HH11	ARG	71	26.340	20.098	22.618	0.4494	1.300	H
ATOM	1774	HH12	ARG	71	26.429	18.836	21.413	0.4494	1.300	H
ATOM	1775	NH2	ARG	71	28.459	21.270	21.954	-0.8693	1.550	N
ATOM	1776	HH21	ARG	71	27.966	21.718	22.712	0.4494	1.300	H
ATOM	1777	HH22	ARG	71	29.334	21.656	21.631	0.4494	1.300	H
ATOM	1778	C	ARG	71	31.562	15.745	18.312	0.7214	1.700	C
ATOM	1779	O	ARG	71	31.727	15.309	19.457	-0.6013	1.500	O
ATOM	1780	N	PRO	72	32.593	16.165	17.567	-0.2548	1.550	N
ATOM	1781	CD	PRO	72	32.490	16.742	16.225	0.0192	1.700	C
ATOM	1782	HD2	PRO	72	32.371	17.825	16.282	0.0391	1.200	H
ATOM	1783	HD3	PRO	72	31.706	16.287	15.621	0.0391	1.200	H
ATOM	1784	CG	PRO	72	33.813	16.382	15.660	0.0189	1.700	C
ATOM	1785	HG2	PRO	72	34.048	16.984	14.781	0.0213	1.200	H
ATOM	1786	HG3	PRO	72	33.844	15.318	15.414	0.0213	1.200	H
ATOM	1787	CB	PRO	72	34.732	16.679	16.785	-0.0070	1.700	C
ATOM	1788	HB2	PRO	72	34.891	17.758	16.847	0.0253	1.200	H
ATOM	1789	HB3	PRO	72	35.689	16.169	16.663	0.0253	1.200	H
ATOM	1790	CA	PRO	72	33.985	16.175	18.016	-0.0266	1.700	C
ATOM	1791	HA	PRO	72	34.292	15.149	18.225	0.0641	1.200	H
ATOM	1792	C	PRO	72	34.294	17.062	19.215	0.5896	1.700	C
ATOM	1793	O	PRO	72	33.609	18.051	19.455	-0.5748	1.500	O
ATOM	1794	N	GLN	73	35.342	16.700	19.959	-0.4157	1.550	N
ATOM	1795	H	GLN	73	35.877	15.884	19.705	0.2719	1.300	H
ATOM	1796	CA	GLN	73	35.793	17.481	21.111	-0.0031	1.700	C
ATOM	1797	HA	GLN	73	34.962	17.663	21.795	0.0850	1.200	H
ATOM	1798	CB	GLN	73	36.956	16.784	21.827	-0.0036	1.700	C
ATOM	1799	HB2	GLN	73	36.791	15.707	21.765	0.0171	1.200	H
ATOM	1800	HB3	GLN	73	37.901	16.991	21.322	0.0171	1.200	H
ATOM	1801	CG	GLN	73	37.078	17.112	23.316	-0.0645	1.700	C
ATOM	1802	HG2	GLN	73	36.133	16.882	23.812	0.0352	1.200	H
ATOM	1803	HG3	GLN	73	37.847	16.470	23.749	0.0352	1.200	H
ATOM	1804	CD	GLN	73	37.448	18.547	23.581	0.6951	1.700	C
ATOM	1805	OE1	GLN	73	36.517	19.309	24.112	-0.6086	1.500	O
ATOM	1806	NE2	GLN	73	38.556	18.967	23.297	-0.9407	1.550	N
ATOM	1807	HE21	GLN	73	38.740	19.957	23.388	0.4251	1.300	H
ATOM	1808	HE22	GLN	73	39.275	18.346	22.946	0.4251	1.300	H
ATOM	1809	C	GLN	73	36.291	18.763	20.468	0.5973	1.700	C
ATOM	1810	O	GLN	73	37.039	18.735	19.485	-0.5679	1.500	O
ATOM	1811	N	VAL	74	35.847	19.885	20.999	-0.4157	1.550	N
ATOM	1812	H	VAL	74	35.259	19.860	21.821	0.2719	1.300	H
ATOM	1813	CA	VAL	74	36.207	21.178	20.445	-0.0875	1.700	C
ATOM	1814	HA	VAL	74	35.951	21.108	19.390	0.0969	1.200	H
ATOM	1815	CB	VAL	74	35.298	22.262	21.082	0.2985	1.700	C

ATOM	1816	HB	VAL	74	34.676	21.807	21.857	-0.0297	1.200	H
ATOM	1817	CG1	VAL	74	36.092	23.346	21.746	-0.3192	1.700	C
ATOM	1818	HG11	VAL	74	35.401	24.035	22.225	0.0791	1.200	H
ATOM	1819	HG12	VAL	74	36.729	22.882	22.490	0.0791	1.200	H
ATOM	1820	HG13	VAL	74	36.676	23.908	21.018	0.0791	1.200	H
ATOM	1821	CG2	VAL	74	34.371	22.803	20.032	-0.3192	1.700	C
ATOM	1822	HG21	VAL	74	33.691	23.527	20.483	0.0791	1.200	H
ATOM	1823	HG22	VAL	74	34.936	23.294	19.240	0.0791	1.200	H
ATOM	1824	HG23	VAL	74	33.780	21.991	19.606	0.0791	1.200	H
ATOM	1825	C	VAL	74	37.704	21.478	20.543	0.5973	1.700	C
ATOM	1826	O	VAL	74	38.379	20.999	21.448	-0.5679	1.500	O
ATOM	1827	N	PRO	75	38.261	22.191	19.555	-0.2548	1.550	N
ATOM	1828	CD	PRO	75	37.672	22.677	18.299	0.0192	1.700	C
ATOM	1829	HD2	PRO	75	37.162	23.626	18.468	0.0391	1.200	H
ATOM	1830	HD3	PRO	75	37.008	21.947	17.837	0.0391	1.200	H
ATOM	1831	CG	PRO	75	38.888	22.882	17.431	0.0189	1.700	C
ATOM	1832	HG2	PRO	75	38.694	23.603	16.637	0.0213	1.200	H
ATOM	1833	HG3	PRO	75	39.211	21.928	17.010	0.0213	1.200	H
ATOM	1834	CB	PRO	75	39.904	23.385	18.392	-0.0070	1.700	C
ATOM	1835	HB2	PRO	75	39.695	24.430	18.631	0.0253	1.200	H
ATOM	1836	HB3	PRO	75	40.916	23.281	17.998	0.0253	1.200	H
ATOM	1837	CA	PRO	75	39.688	22.499	19.617	-0.0266	1.700	C
ATOM	1838	HA	PRO	75	40.265	21.578	19.519	0.0641	1.200	H
ATOM	1839	C	PRO	75	40.028	23.229	20.910	0.5896	1.700	C
ATOM	1840	O	PRO	75	39.265	24.066	21.403	-0.5748	1.500	O
ATOM	1841	N	LEU	76	41.162	22.856	21.478	-0.4157	1.550	N
ATOM	1842	H	LEU	76	41.730	22.155	21.026	0.2719	1.300	H
ATOM	1843	CA	LEU	76	41.658	23.415	22.722	-0.0518	1.700	C
ATOM	1844	HA	LEU	76	40.878	23.339	23.475	0.0922	1.200	H
ATOM	1845	CB	LEU	76	42.855	22.556	23.166	-0.1102	1.700	C
ATOM	1846	HB2	LEU	76	42.384	21.603	23.413	0.0457	1.200	H
ATOM	1847	HB3	LEU	76	43.441	22.354	22.266	0.0457	1.200	H
ATOM	1848	CG	LEU	76	43.880	22.829	24.271	0.3531	1.700	C
ATOM	1849	HG	LEU	76	43.367	23.176	25.168	-0.0361	1.200	H
ATOM	1850	CD1	LEU	76	44.548	21.503	24.582	-0.4121	1.700	C
ATOM	1851	HD11	LEU	76	45.333	21.635	25.325	0.1000	1.200	H
ATOM	1852	HD12	LEU	76	43.817	20.772	24.930	0.1000	1.200	H
ATOM	1853	HD13	LEU	76	45.019	21.110	23.680	0.1000	1.200	H
ATOM	1854	CD2	LEU	76	44.932	23.864	23.852	-0.4121	1.700	C
ATOM	1855	HD21	LEU	76	45.824	23.772	24.476	0.1000	1.200	H
ATOM	1856	HD22	LEU	76	45.213	23.726	22.804	0.1000	1.200	H
ATOM	1857	HD23	LEU	76	44.524	24.868	23.985	0.1000	1.200	H
ATOM	1858	C	LEU	76	42.062	24.867	22.516	0.5973	1.700	C
ATOM	1859	O	LEU	76	42.506	25.239	21.433	-0.5679	1.500	O
ATOM	1860	N	ARG	77	41.872	25.690	23.537	-0.3479	1.550	N
ATOM	1861	H	ARG	77	41.508	25.340	24.410	0.2747	1.300	H
ATOM	1862	CA	ARG	77	42.250	27.094	23.464	-0.2637	1.700	C
ATOM	1863	HA	ARG	77	43.186	27.171	22.910	0.1560	1.200	H
ATOM	1864	CB	ARG	77	41.189	27.934	22.758	-0.0007	1.700	C
ATOM	1865	HB2	ARG	77	41.463	28.988	22.782	0.0327	1.200	H
ATOM	1866	HB3	ARG	77	41.149	27.627	21.712	0.0327	1.200	H
ATOM	1867	CG	ARG	77	39.827	27.785	23.355	0.0390	1.700	C
ATOM	1868	HG2	ARG	77	39.524	26.739	23.314	0.0285	1.200	H
ATOM	1869	HG3	ARG	77	39.835	28.110	24.393	0.0285	1.200	H
ATOM	1870	CD	ARG	77	38.816	28.578	22.594	0.0486	1.700	C
ATOM	1871	HD2	ARG	77	39.016	29.641	22.744	0.0687	1.200	H
ATOM	1872	HD3	ARG	77	38.895	28.341	21.532	0.0687	1.200	H
ATOM	1873	NE	ARG	77	37.467	28.251	23.047	-0.5295	1.550	N
ATOM	1874	HE	ARG	77	37.358	27.426	23.620	0.3456	1.300	H
ATOM	1875	CZ	ARG	77	36.381	28.928	22.702	0.8076	1.700	C
ATOM	1876	NH1	ARG	77	36.492	29.976	21.903	-0.8627	1.550	N
ATOM	1877	HH11	ARG	77	37.403	30.245	21.563	0.4478	1.300	H
ATOM	1878	HH12	ARG	77	35.671	30.481	21.612	0.4478	1.300	H
ATOM	1879	NH2	ARG	77	35.188	28.532	23.119	-0.8627	1.550	N
ATOM	1880	HH21	ARG	77	34.356	28.989	22.782	0.4478	1.300	H
ATOM	1881	HH22	ARG	77	35.127	27.714	23.708	0.4478	1.300	H
ATOM	1882	C	ARG	77	42.460	27.598	24.877	0.7341	1.700	C
ATOM	1883	O	ARG	77	42.000	26.977	25.842	-0.5894	1.500	O
ATOM	1884	N	PRO	78	43.234	28.682	25.026	-0.2548	1.550	N
ATOM	1885	CD	PRO	78	44.050	29.320	23.974	0.0192	1.700	C
ATOM	1886	HD2	PRO	78	43.508	29.482	23.045	0.0391	1.200	H
ATOM	1887	HD3	PRO	78	44.951	28.730	23.795	0.0391	1.200	H
ATOM	1888	CG	PRO	78	44.404	30.631	24.587	0.0189	1.700	C
ATOM	1889	HG2	PRO	78	43.567	31.327	24.510	0.0213	1.200	H
ATOM	1890	HG3	PRO	78	45.299	31.056	24.132	0.0213	1.200	H
ATOM	1891	CB	PRO	78	44.641	30.241	26.035	-0.0070	1.700	C
ATOM	1892	HB2	PRO	78	44.622	31.112	26.693	0.0253	1.200	H

ATOM	1893	HB3	PRO	78	45.602	29.730	26.124	0.0253	1.200	H
ATOM	1894	CA	PRO	78	43.512	29.263	26.338	-0.0266	1.700	C
ATOM	1895	HA	PRO	78	43.873	28.494	27.024	0.0641	1.200	H
ATOM	1896	C	PRO	78	42.331	29.996	26.957	0.5896	1.700	C
ATOM	1897	O	PRO	78	41.554	30.657	26.257	-0.5748	1.500	O
ATOM	1898	N	MET	79	42.200	29.868	28.272	-0.4157	1.550	N
ATOM	1899	H	MET	79	42.868	29.319	28.793	0.2719	1.300	H
ATOM	1900	CA	MET	79	41.157	30.560	29.009	-0.0237	1.700	C
ATOM	1901	HA	MET	79	40.175	30.319	28.605	0.0880	1.200	H
ATOM	1902	CB	MET	79	41.254	30.202	30.495	0.0342	1.700	C
ATOM	1903	HB2	MET	79	41.104	29.126	30.587	0.0241	1.200	H
ATOM	1904	HB3	MET	79	42.257	30.427	30.862	0.0241	1.200	H
ATOM	1905	CG	MET	79	40.246	30.884	31.408	0.0018	1.700	C
ATOM	1906	HG2	MET	79	40.253	30.408	32.388	0.0440	1.200	H
ATOM	1907	HG3	MET	79	40.556	31.922	31.536	0.0440	1.200	H
ATOM	1908	SD	MET	79	38.582	30.890	30.752	-0.2737	1.800	S
ATOM	1909	CE	MET	79	37.835	29.417	31.348	-0.0536	1.700	C
ATOM	1910	HE1	MET	79	37.026	29.126	30.688	0.0684	1.200	H
ATOM	1911	HE2	MET	79	38.576	28.622	31.328	0.0684	1.200	H
ATOM	1912	HE3	MET	79	37.473	29.570	32.364	0.0684	1.200	H
ATOM	1913	C	MET	79	41.479	32.038	28.819	0.5973	1.700	C
ATOM	1914	O	MET	79	42.636	32.396	28.569	-0.5679	1.500	O
ATOM	1915	N	THR	80	40.462	32.892	28.855	-0.4157	1.550	N
ATOM	1916	H	THR	80	39.530	32.564	29.062	0.2719	1.300	H
ATOM	1917	CA	THR	80	40.694	34.320	28.724	-0.0389	1.700	C
ATOM	1918	HA	THR	80	41.739	34.561	28.922	0.1007	1.200	H
ATOM	1919	CB	THR	80	40.346	34.829	27.343	0.3654	1.700	C
ATOM	1920	HB	THR	80	40.593	35.888	27.269	0.0043	1.200	H
ATOM	1921	CG2	THR	80	41.112	34.070	26.291	-0.2438	1.700	C
ATOM	1922	HG21	THR	80	40.980	34.566	25.329	0.0642	1.200	H
ATOM	1923	HG22	THR	80	42.177	34.063	26.526	0.0642	1.200	H
ATOM	1924	HG23	THR	80	40.741	33.051	26.200	0.0642	1.200	H
ATOM	1925	OG1	THR	80	38.950	34.649	27.118	-0.6761	1.500	O
ATOM	1926	HG1	THR	80	38.796	33.713	26.963	0.4102	1.200	H
ATOM	1927	C	THR	80	39.859	35.078	29.741	0.5973	1.700	C
ATOM	1928	O	THR	80	38.999	34.502	30.429	-0.5679	1.500	O
ATOM	1929	N	TYR	81	40.130	36.375	29.838	-0.4157	1.550	N
ATOM	1930	H	TYR	81	40.867	36.776	29.278	0.2719	1.300	H
ATOM	1931	CA	TYR	81	39.413	37.257	30.734	-0.0014	1.700	C
ATOM	1932	HA	TYR	81	39.453	36.883	31.758	0.0876	1.200	H
ATOM	1933	CB	TYR	81	40.015	38.659	30.657	-0.0152	1.700	C
ATOM	1934	HB2	TYR	81	41.022	38.636	31.076	0.0295	1.200	H
ATOM	1935	HB3	TYR	81	40.096	38.973	29.615	0.0295	1.200	H
ATOM	1936	CG	TYR	81	39.191	39.657	31.401	-0.0011	1.700	C
ATOM	1937	CD1	TYR	81	38.102	40.278	30.796	-0.1906	1.700	C
ATOM	1938	HD1	TYR	81	37.896	40.114	29.749	0.1699	1.200	H
ATOM	1939	CE1	TYR	81	37.239	41.071	31.520	-0.2341	1.700	C
ATOM	1940	HE1	TYR	81	36.386	41.531	31.042	0.1656	1.200	H
ATOM	1941	CZ	TYR	81	37.471	41.261	32.856	0.3226	1.700	C
ATOM	1942	OH	TYR	81	36.583	41.986	33.619	-0.5579	1.500	O
ATOM	1943	HH	TYR	81	36.865	42.098	34.533	0.3992	1.200	H
ATOM	1944	CE2	TYR	81	38.559	40.672	33.468	-0.2341	1.700	C
ATOM	1945	HE2	TYR	81	38.730	40.816	34.525	0.1656	1.200	H
ATOM	1946	CD2	TYR	81	39.406	39.879	32.742	-0.1906	1.700	C
ATOM	1947	HD2	TYR	81	40.246	39.417	33.235	0.1699	1.200	H
ATOM	1948	C	TYR	81	37.963	37.301	30.247	0.5973	1.700	C
ATOM	1949	O	TYR	81	37.027	37.120	31.007	-0.5679	1.500	O
ATOM	1950	N	LYS	82	37.793	37.502	28.951	-0.3479	1.550	N
ATOM	1951	H	LYS	82	38.597	37.627	28.355	0.2747	1.300	H
ATOM	1952	CA	LYS	82	36.474	37.595	28.365	-0.2400	1.700	C
ATOM	1953	HA	LYS	82	35.893	38.323	28.935	0.1426	1.200	H
ATOM	1954	CB	LYS	82	36.578	38.085	26.925	-0.0094	1.700	C
ATOM	1955	HB2	LYS	82	37.070	39.059	26.912	0.0362	1.200	H
ATOM	1956	HB3	LYS	82	37.167	37.378	26.337	0.0362	1.200	H
ATOM	1957	CG	LYS	82	35.180	38.212	26.329	0.0187	1.700	C
ATOM	1958	HG2	LYS	82	34.676	37.246	26.306	0.0103	1.200	H
ATOM	1959	HG3	LYS	82	34.590	38.918	26.917	0.0103	1.200	H
ATOM	1960	CD	LYS	82	35.284	38.702	24.889	-0.0479	1.700	C
ATOM	1961	HD2	LYS	82	35.777	39.676	24.870	0.0621	1.200	H
ATOM	1962	HD3	LYS	82	35.866	37.989	24.302	0.0621	1.200	H
ATOM	1963	CE	LYS	82	33.886	38.829	24.293	-0.0143	1.700	C
ATOM	1964	HE2	LYS	82	33.391	37.856	24.320	0.1135	1.200	H
ATOM	1965	HE3	LYS	82	33.303	39.536	24.886	0.1135	1.200	H
ATOM	1966	NZ	LYS	82	33.986	39.302	22.904	-0.3854	1.550	N
ATOM	1967	HZ1	LYS	82	33.059	39.365	22.507	0.3400	1.300	H
ATOM	1968	HZ2	LYS	82	34.421	40.214	22.884	0.3400	1.300	H
ATOM	1969	HZ3	LYS	82	34.540	38.655	22.362	0.3400	1.300	H

ATOM	1970	C	LYS	82	35.754	36.272	28.431	0.7341	1.700	C
ATOM	1971	O	LYS	82	34.549	36.241	28.642	-0.5894	1.500	O
ATOM	1972	N	ALA	83	36.483	35.173	28.253	-0.4157	1.550	N
ATOM	1973	H	ALA	83	37.477	35.250	28.112	0.2719	1.300	H
ATOM	1974	CA	ALA	83	35.893	33.844	28.312	0.0337	1.700	C
ATOM	1975	HA	ALA	83	35.007	33.810	27.676	0.0823	1.200	H
ATOM	1976	CB	ALA	83	36.864	32.841	27.837	-0.1825	1.700	C
ATOM	1977	HB1	ALA	83	36.414	31.852	27.936	0.0603	1.200	H
ATOM	1978	HB2	ALA	83	37.093	33.007	26.786	0.0603	1.200	H
ATOM	1979	HB3	ALA	83	37.764	32.853	28.446	0.0603	1.200	H
ATOM	1980	C	ALA	83	35.487	33.540	29.744	0.5973	1.700	C
ATOM	1981	O	ALA	83	34.425	32.959	29.992	-0.5679	1.500	O
ATOM	1982	N	ALA	84	36.309	33.963	30.699	-0.4157	1.550	N
ATOM	1983	H	ALA	84	37.151	34.466	30.465	0.2719	1.300	H
ATOM	1984	CA	ALA	84	36.002	33.731	32.107	0.0337	1.700	C
ATOM	1985	HA	ALA	84	35.773	32.672	32.241	0.0823	1.200	H
ATOM	1986	CB	ALA	84	37.215	34.058	32.975	-0.1825	1.700	C
ATOM	1987	HB1	ALA	84	36.988	33.814	34.007	0.0603	1.200	H
ATOM	1988	HB2	ALA	84	38.066	33.451	32.665	0.0603	1.200	H
ATOM	1989	HB3	ALA	84	37.472	35.114	32.890	0.0603	1.200	H
ATOM	1990	C	ALA	84	34.772	34.548	32.554	0.5973	1.700	C
ATOM	1991	O	ALA	84	33.959	34.077	33.367	-0.5679	1.500	O
ATOM	1992	N	VAL	85	34.645	35.776	32.043	-0.4157	1.550	N
ATOM	1993	H	VAL	85	35.342	36.135	31.407	0.2719	1.300	H
ATOM	1994	CA	VAL	85	33.496	36.633	32.379	-0.0875	1.700	C
ATOM	1995	HA	VAL	85	33.388	36.646	33.465	0.0969	1.200	H
ATOM	1996	CB	VAL	85	33.700	38.106	31.906	0.2985	1.700	C
ATOM	1997	HB	VAL	85	34.113	38.110	30.896	-0.0297	1.200	H
ATOM	1998	CG1	VAL	85	32.379	38.843	31.882	-0.3192	1.700	C
ATOM	1999	HG11	VAL	85	32.554	39.898	31.667	0.0791	1.200	H
ATOM	2000	HG12	VAL	85	31.724	38.462	31.097	0.0791	1.200	H
ATOM	2001	HG13	VAL	85	31.898	38.763	32.853	0.0791	1.200	H
ATOM	2002	CG2	VAL	85	34.660	38.815	32.833	-0.3192	1.700	C
ATOM	2003	HG21	VAL	85	34.805	39.842	32.500	0.0791	1.200	H
ATOM	2004	HG22	VAL	85	34.264	38.824	33.849	0.0791	1.200	H
ATOM	2005	HG23	VAL	85	35.626	38.313	32.834	0.0791	1.200	H
ATOM	2006	C	VAL	85	32.182	36.060	31.810	0.5973	1.700	C
ATOM	2007	O	VAL	85	31.170	36.028	32.513	-0.5679	1.500	O
ATOM	2008	N	ASP	86	32.202	35.588	30.563	-0.5163	1.550	N
ATOM	2009	H	ASP	86	33.034	35.672	29.996	0.2936	1.300	H
ATOM	2010	CA	ASP	86	31.005	35.020	29.963	0.0381	1.700	C
ATOM	2011	HA	ASP	86	30.181	35.725	30.095	0.0880	1.200	H
ATOM	2012	CB	ASP	86	31.190	34.797	28.476	-0.0303	1.700	C
ATOM	2013	HB2	ASP	86	32.026	34.114	28.311	-0.0122	1.200	H
ATOM	2014	HB3	ASP	86	30.286	34.340	28.071	-0.0122	1.200	H
ATOM	2015	CG	ASP	86	31.457	36.093	27.723	0.7994	1.700	C
ATOM	2016	OD1	ASP	86	31.521	37.148	28.364	-0.8014	1.500	O
ATOM	2017	OD2	ASP	86	31.644	36.081	26.491	-0.8014	1.500	O
ATOM	2018	C	ASP	86	30.628	33.729	30.661	0.5366	1.700	C
ATOM	2019	O	ASP	86	29.497	33.571	31.089	-0.5819	1.500	O
ATOM	2020	N	LEU	87	31.598	32.844	30.864	-0.4157	1.550	N
ATOM	2021	H	LEU	87	32.532	33.038	30.533	0.2719	1.300	H
ATOM	2022	CA	LEU	87	31.349	31.572	31.544	-0.0518	1.700	C
ATOM	2023	HA	LEU	87	30.624	31.011	30.956	0.0922	1.200	H
ATOM	2024	CB	LEU	87	32.642	30.747	31.678	-0.1102	1.700	C
ATOM	2025	HB2	LEU	87	33.436	31.415	32.019	0.0457	1.200	H
ATOM	2026	HB3	LEU	87	32.495	30.008	32.468	0.0457	1.200	H
ATOM	2027	CG	LEU	87	33.117	29.993	30.433	0.3531	1.700	C
ATOM	2028	HG	LEU	87	33.150	30.677	29.585	-0.0361	1.200	H
ATOM	2029	CD1	LEU	87	34.516	29.458	30.661	-0.4121	1.700	C
ATOM	2030	HD11	LEU	87	34.559	28.892	31.588	0.1000	1.200	H
ATOM	2031	HD12	LEU	87	34.820	28.831	29.824	0.1000	1.200	H
ATOM	2032	HD13	LEU	87	35.195	30.307	30.733	0.1000	1.200	H
ATOM	2033	CD2	LEU	87	32.137	28.865	30.092	-0.4121	1.700	C
ATOM	2034	HD21	LEU	87	31.171	29.272	29.797	0.1000	1.200	H
ATOM	2035	HD22	LEU	87	32.525	28.284	29.257	0.1000	1.200	H
ATOM	2036	HD23	LEU	87	32.006	28.205	30.951	0.1000	1.200	H
ATOM	2037	C	LEU	87	30.750	31.775	32.914	0.5973	1.700	C
ATOM	2038	O	LEU	87	29.853	31.032	33.300	-0.5679	1.500	O
ATOM	2039	N	SER	88	31.248	32.765	33.658	-0.4157	1.550	N
ATOM	2040	H	SER	88	31.985	33.349	33.289	0.2719	1.300	H
ATOM	2041	CA	SER	88	30.743	33.034	35.007	-0.0249	1.700	C
ATOM	2042	HA	SER	88	30.823	32.119	35.593	0.0843	1.200	H
ATOM	2043	CB	SER	88	31.549	34.129	35.701	0.2117	1.700	C
ATOM	2044	HB2	SER	88	31.427	35.074	35.170	0.0352	1.200	H
ATOM	2045	HB3	SER	88	31.170	34.242	36.715	0.0352	1.200	H
ATOM	2046	OG	SER	88	32.926	33.823	35.772	-0.6546	1.500	O

ATOM	2047	HG	SER	88	33.297	33.885	34.882	0.4275	1.200	H
ATOM	2048	C	SER	88	29.293	33.464	34.955	0.5973	1.700	C
ATOM	2049	O	SER	88	28.465	32.950	35.703	-0.5679	1.500	O
ATOM	2050	N	HIS	89	28.978	34.391	34.051	-0.4157	1.550	N
ATOM	2051	H	HIS	89	29.684	34.758	33.426	0.2719	1.300	H
ATOM	2052	CA	HIS	89	27.610	34.888	33.935	0.0188	1.700	C
ATOM	2053	HA	HIS	89	27.273	35.162	34.936	0.0881	1.200	H
ATOM	2054	CB	HIS	89	27.538	36.161	33.080	-0.0462	1.700	C
ATOM	2055	HB2	HIS	89	28.073	36.005	32.142	0.0402	1.200	H
ATOM	2056	HB3	HIS	89	26.493	36.364	32.841	0.0402	1.200	H
ATOM	2057	CG	HIS	89	28.084	37.361	33.788	-0.0266	1.700	C
ATOM	2058	ND1	HIS	89	29.338	37.871	33.531	-0.3811	1.550	N
ATOM	2059	HD1	HIS	89	29.978	37.521	32.832	0.3649	1.300	H
ATOM	2060	CE1	HIS	89	29.622	38.813	34.411	0.2057	1.700	C
ATOM	2061	HE1	HIS	89	30.550	39.361	34.486	0.1392	1.200	H
ATOM	2062	NE2	HIS	89	28.591	38.943	35.223	-0.5727	1.550	N
ATOM	2063	CD2	HIS	89	27.613	38.053	34.852	0.1292	1.700	C
ATOM	2064	HD2	HIS	89	26.676	37.882	35.361	0.1147	1.200	H
ATOM	2065	C	HIS	89	26.683	33.816	33.453	0.5973	1.700	C
ATOM	2066	O	HIS	89	25.577	33.711	33.959	-0.5679	1.500	O
ATOM	2067	N	PHE	90	27.170	32.970	32.549	-0.4157	1.550	N
ATOM	2068	H	PHE	90	28.102	33.117	32.193	0.2719	1.300	H
ATOM	2069	CA	PHE	90	26.411	31.858	32.012	-0.0024	1.700	C
ATOM	2070	HA	PHE	90	25.502	32.228	31.536	0.0978	1.200	H
ATOM	2071	CB	PHE	90	27.259	31.127	30.968	-0.0343	1.700	C
ATOM	2072	HB2	PHE	90	27.249	31.706	30.044	0.0295	1.200	H
ATOM	2073	HB3	PHE	90	28.293	31.084	31.302	0.0295	1.200	H
ATOM	2074	CG	PHE	90	26.816	29.711	30.684	0.0118	1.700	C
ATOM	2075	CD1	PHE	90	27.235	28.659	31.493	-0.1256	1.700	C
ATOM	2076	HD1	PHE	90	27.959	28.850	32.263	0.1330	1.200	H
ATOM	2077	CE1	PHE	90	26.820	27.365	31.250	-0.1704	1.700	C
ATOM	2078	HE1	PHE	90	27.172	26.545	31.855	0.1430	1.200	H
ATOM	2079	CZ	PHE	90	25.978	27.102	30.182	-0.1072	1.700	C
ATOM	2080	HZ	PHE	90	25.659	26.090	29.979	0.1297	1.200	H
ATOM	2081	CE2	PHE	90	25.560	28.133	29.366	-0.1704	1.700	C
ATOM	2082	HE2	PHE	90	24.896	27.934	28.538	0.1430	1.200	H
ATOM	2083	CD2	PHE	90	25.979	29.432	29.620	-0.1256	1.700	C
ATOM	2084	HD2	PHE	90	25.641	30.233	28.978	0.1330	1.200	H
ATOM	2085	C	PHE	90	26.026	30.905	33.141	0.5973	1.700	C
ATOM	2086	O	PHE	90	24.858	30.563	33.307	-0.5679	1.500	O
ATOM	2087	N	LEU	91	27.014	30.462	33.907	-0.4157	1.550	N
ATOM	2088	H	LEU	91	27.960	30.773	33.736	0.2719	1.300	H
ATOM	2089	CA	LEU	91	26.769	29.532	35.006	-0.0518	1.700	C
ATOM	2090	HA	LEU	91	26.249	28.657	34.619	0.0922	1.200	H
ATOM	2091	CB	LEU	91	28.089	29.100	35.674	-0.1102	1.700	C
ATOM	2092	HB2	LEU	91	28.517	29.992	36.137	0.0457	1.200	H
ATOM	2093	HB3	LEU	91	27.825	28.424	36.490	0.0457	1.200	H
ATOM	2094	CG	LEU	91	29.205	28.441	34.869	0.3531	1.700	C
ATOM	2095	HG	LEU	91	29.575	29.041	34.082	-0.0361	1.200	H
ATOM	2096	CD1	LEU	91	30.349	28.100	35.797	-0.4121	1.700	C
ATOM	2097	HD11	LEU	91	31.196	27.758	35.202	0.1000	1.200	H
ATOM	2098	HD12	LEU	91	30.632	28.980	36.375	0.1000	1.200	H
ATOM	2099	HD13	LEU	91	30.027	27.295	36.450	0.1000	1.200	H
ATOM	2100	CD2	LEU	91	28.678	27.201	34.197	-0.4121	1.700	C
ATOM	2101	HD21	LEU	91	29.373	26.883	33.420	0.1000	1.200	H
ATOM	2102	HD22	LEU	91	28.576	26.396	34.925	0.1000	1.200	H
ATOM	2103	HD23	LEU	91	27.697	27.361	33.776	0.1000	1.200	H
ATOM	2104	C	LEU	91	25.876	30.182	36.049	0.5973	1.700	C
ATOM	2105	O	LEU	91	25.038	29.521	36.677	-0.5679	1.500	O
ATOM	2106	N	LYS	92	26.093	31.469	36.278	-0.3479	1.550	N
ATOM	2107	H	LYS	92	26.800	31.975	35.763	0.2747	1.300	H
ATOM	2108	CA	LYS	92	25.290	32.167	37.250	-0.2400	1.700	C
ATOM	2109	HA	LYS	92	25.380	31.662	38.213	0.1426	1.200	H
ATOM	2110	CB	LYS	92	25.731	33.612	37.399	-0.0094	1.700	C
ATOM	2111	HB2	LYS	92	26.812	33.649	37.526	0.0362	1.200	H
ATOM	2112	HB3	LYS	92	25.467	34.178	36.506	0.0362	1.200	H
ATOM	2113	CG	LYS	92	25.106	34.250	38.613	0.0187	1.700	C
ATOM	2114	HG2	LYS	92	24.030	34.071	38.596	0.0103	1.200	H
ATOM	2115	HG3	LYS	92	25.525	33.767	39.497	0.0103	1.200	H
ATOM	2116	CD	LYS	92	25.323	35.739	38.676	-0.0479	1.700	C
ATOM	2117	HD2	LYS	92	26.368	35.946	38.854	0.0621	1.200	H
ATOM	2118	HD3	LYS	92	25.023	36.202	37.735	0.0621	1.200	H
ATOM	2119	CE	LYS	92	24.489	36.327	39.797	-0.0143	1.700	C
ATOM	2120	HE2	LYS	92	24.735	37.386	39.885	0.1135	1.200	H
ATOM	2121	HE3	LYS	92	23.427	36.229	39.564	0.1135	1.200	H
ATOM	2122	NZ	LYS	92	24.790	35.641	41.095	-0.3854	1.550	N
ATOM	2123	HZ1	LYS	92	25.789	35.523	41.193	0.3400	1.300	H

ATOM	2124	HZ2	LYS	92	24.437	36.186	41.867	0.3400	1.300	H
ATOM	2125	HZ3	LYS	92	24.355	34.729	41.109	0.3400	1.300	H
ATOM	2126	C	LYS	92	23.849	32.097	36.780	0.7341	1.700	C
ATOM	2127	O	LYS	92	22.959	31.789	37.568	-0.5894	1.500	O
ATOM	2128	N	GLU	93	23.634	32.342	35.488	-0.5163	1.550	N
ATOM	2129	H	GLU	93	24.411	32.569	34.884	0.2936	1.300	H
ATOM	2130	CA	GLU	93	22.303	32.289	34.896	0.0397	1.700	C
ATOM	2131	HA	GLU	93	21.658	33.037	35.359	0.1105	1.200	H
ATOM	2132	CB	GLU	93	22.357	32.526	33.379	0.0560	1.700	C
ATOM	2133	HB2	GLU	93	22.982	31.796	32.892	-0.0173	1.200	H
ATOM	2134	HB3	GLU	93	21.354	32.360	32.982	-0.0173	1.200	H
ATOM	2135	CG	GLU	93	22.787	33.939	32.945	0.0136	1.700	C
ATOM	2136	HG2	GLU	93	21.886	34.554	32.964	-0.0425	1.200	H
ATOM	2137	HG3	GLU	93	23.436	34.417	33.666	-0.0425	1.200	H
ATOM	2138	CD	GLU	93	23.346	34.014	31.502	0.8054	1.700	C
ATOM	2139	OE1	GLU	93	23.018	33.148	30.651	-0.8188	1.500	O
ATOM	2140	OE2	GLU	93	24.128	34.953	31.224	-0.8188	1.500	O
ATOM	2141	C	GLU	93	21.750	30.902	35.165	0.5366	1.700	C
ATOM	2142	O	GLU	93	20.667	30.775	35.716	-0.5819	1.500	O
ATOM	2143	N	LYS	94	22.543	29.874	34.852	-0.3479	1.550	N
ATOM	2144	H	LYS	94	23.439	30.063	34.427	0.2747	1.300	H
ATOM	2145	CA	LYS	94	22.161	28.466	35.035	-0.2400	1.700	C
ATOM	2146	HA	LYS	94	21.272	28.286	34.429	0.1426	1.200	H
ATOM	2147	CB	LYS	94	23.284	27.552	34.531	-0.0094	1.700	C
ATOM	2148	HB2	LYS	94	23.502	27.791	33.488	0.0362	1.200	H
ATOM	2149	HB3	LYS	94	24.183	27.700	35.126	0.0362	1.200	H
ATOM	2150	CG	LYS	94	22.843	26.096	34.642	0.0187	1.700	C
ATOM	2151	HG2	LYS	94	22.718	25.789	35.674	0.0103	1.200	H
ATOM	2152	HG3	LYS	94	21.928	25.925	34.072	0.0103	1.200	H
ATOM	2153	CD	LYS	94	23.960	25.187	34.141	-0.0479	1.700	C
ATOM	2154	HD2	LYS	94	24.178	25.422	33.098	0.0621	1.200	H
ATOM	2155	HD3	LYS	94	24.858	25.345	34.741	0.0621	1.200	H
ATOM	2156	CE	LYS	94	23.519	23.732	34.252	-0.0143	1.700	C
ATOM	2157	HE2	LYS	94	23.315	23.509	35.301	0.1135	1.200	H
ATOM	2158	HE3	LYS	94	22.610	23.570	33.669	0.1135	1.200	H
ATOM	2159	NZ	LYS	94	24.596	22.855	33.768	-0.3854	1.550	N
ATOM	2160	HZ1	LYS	94	24.669	22.929	32.764	0.3400	1.300	H
ATOM	2161	HZ2	LYS	94	25.472	23.131	34.188	0.3400	1.300	H
ATOM	2162	HZ3	LYS	94	24.386	21.900	34.015	0.3400	1.300	H
ATOM	2163	C	LYS	94	21.813	28.113	36.477	0.7341	1.700	C
ATOM	2164	O	LYS	94	21.205	27.086	36.746	-0.5894	1.500	O
ATOM	2165	N	GLY	95	22.225	28.964	37.403	-0.4157	1.550	N
ATOM	2166	H	GLY	95	22.722	29.802	37.136	0.2719	1.300	H
ATOM	2167	CA	GLY	95	21.936	28.731	38.804	-0.0252	1.700	C
ATOM	2168	HA2	GLY	95	22.345	29.560	39.381	0.0698	1.200	H
ATOM	2169	HA3	GLY	95	20.855	28.710	38.949	0.0698	1.200	H
ATOM	2170	C	GLY	95	22.537	27.442	39.319	0.5973	1.700	C
ATOM	2171	O	GLY	95	21.837	26.611	39.895	-0.5679	1.500	O
ATOM	2172	N	GLY	96	23.840	27.273	39.130	-0.4157	1.550	N
ATOM	2173	H	GLY	96	24.383	27.971	38.642	0.2719	1.300	H
ATOM	2174	CA	GLY	96	24.482	26.057	39.596	-0.0252	1.700	C
ATOM	2175	HA2	GLY	96	23.753	25.286	39.847	0.0698	1.200	H
ATOM	2176	HA3	GLY	96	25.053	25.660	38.757	0.0698	1.200	H
ATOM	2177	C	GLY	96	25.435	26.198	40.770	0.5973	1.700	C
ATOM	2178	O	GLY	96	25.072	25.909	41.908	-0.5679	1.500	O
ATOM	2179	N	LEU	97	26.651	26.662	40.484	-0.4157	1.550	N
ATOM	2180	H	LEU	97	26.872	26.904	39.530	0.2719	1.300	H
ATOM	2181	CA	LEU	97	27.703	26.814	41.483	-0.0518	1.700	C
ATOM	2182	HA	LEU	97	27.991	25.815	41.812	0.0922	1.200	H
ATOM	2183	CB	LEU	97	28.904	27.493	40.861	-0.1102	1.700	C
ATOM	2184	HB2	LEU	97	28.622	28.520	40.638	0.0457	1.200	H
ATOM	2185	HB3	LEU	97	29.705	27.517	41.597	0.0457	1.200	H
ATOM	2186	CG	LEU	97	29.437	26.877	39.592	0.3531	1.700	C
ATOM	2187	HG	LEU	97	28.682	26.907	38.804	-0.0361	1.200	H
ATOM	2188	CD1	LEU	97	30.633	27.674	39.137	-0.4121	1.700	C
ATOM	2189	HD11	LEU	97	31.055	27.260	38.242	0.1000	1.200	H
ATOM	2190	HD12	LEU	97	30.335	28.700	38.927	0.1000	1.200	H
ATOM	2191	HD13	LEU	97	31.401	27.680	39.912	0.1000	1.200	H
ATOM	2192	CD2	LEU	97	29.812	25.439	39.875	-0.4121	1.700	C
ATOM	2193	HD21	LEU	97	30.263	25.005	38.986	0.1000	1.200	H
ATOM	2194	HD22	LEU	97	30.525	25.384	40.698	0.1000	1.200	H
ATOM	2195	HD23	LEU	97	28.932	24.843	40.112	0.1000	1.200	H
ATOM	2196	C	LEU	97	27.367	27.588	42.739	0.5973	1.700	C
ATOM	2197	O	LEU	97	27.960	27.340	43.786	-0.5679	1.500	O
ATOM	2198	N	GLU	98	26.446	28.541	42.638	-0.5163	1.550	N
ATOM	2199	H	GLU	98	25.944	28.681	41.775	0.2936	1.300	H
ATOM	2200	CA	GLU	98	26.123	29.380	43.781	0.0397	1.700	C

ATOM	2201	HA	GLU	98	27.011	29.984	43.978	0.1105	1.200	H
ATOM	2202	CB	GLU	98	24.964	30.326	43.470	0.0560	1.700	C
ATOM	2203	HB2	GLU	98	25.065	30.688	42.445	-0.0173	1.200	H
ATOM	2204	HB3	GLU	98	24.019	29.784	43.531	-0.0173	1.200	H
ATOM	2205	CG	GLU	98	24.910	31.539	44.399	0.0136	1.700	C
ATOM	2206	HG2	GLU	98	24.024	32.125	44.150	-0.0425	1.200	H
ATOM	2207	HG3	GLU	98	24.808	31.202	45.432	-0.0425	1.200	H
ATOM	2208	CD	GLU	98	26.131	32.433	44.265	0.8054	1.700	C
ATOM	2209	OE1	GLU	98	26.404	32.888	43.135	-0.8188	1.500	O
ATOM	2210	OE2	GLU	98	26.817	32.682	45.279	-0.8188	1.500	O
ATOM	2211	C	GLU	98	25.810	28.573	45.006	0.5366	1.700	C
ATOM	2212	O	GLU	98	24.974	27.679	44.972	-0.5819	1.500	O
ATOM	2213	N	GLY	99	26.531	28.851	46.076	-0.4157	1.550	N
ATOM	2214	H	GLY	99	27.260	29.550	46.052	0.2719	1.300	H
ATOM	2215	CA	GLY	99	26.298	28.133	47.307	-0.0252	1.700	C
ATOM	2216	HA2	GLY	99	26.793	28.696	48.089	0.0698	1.200	H
ATOM	2217	HA3	GLY	99	25.228	28.121	47.521	0.0698	1.200	H
ATOM	2218	C	GLY	99	26.811	26.705	47.324	0.5973	1.700	C
ATOM	2219	O	GLY	99	27.228	26.225	48.381	-0.5679	1.500	O
ATOM	2220	N	LEU	100	26.808	26.027	46.178	-0.4157	1.550	N
ATOM	2221	H	LEU	100	26.486	26.475	45.332	0.2719	1.300	H
ATOM	2222	CA	LEU	100	27.272	24.638	46.106	-0.0518	1.700	C
ATOM	2223	HA	LEU	100	26.484	24.020	46.537	0.0922	1.200	H
ATOM	2224	CB	LEU	100	27.479	24.219	44.650	-0.1102	1.700	C
ATOM	2225	HB2	LEU	100	26.537	24.355	44.114	0.0457	1.200	H
ATOM	2226	HB3	LEU	100	28.206	24.901	44.214	0.0457	1.200	H
ATOM	2227	CG	LEU	100	28.002	22.802	44.402	0.3531	1.700	C
ATOM	2228	HG	LEU	100	28.956	22.659	44.903	-0.0361	1.200	H
ATOM	2229	CD1	LEU	100	27.006	21.801	44.914	-0.4121	1.700	C
ATOM	2230	HD11	LEU	100	27.323	20.795	44.652	0.1000	1.200	H
ATOM	2231	HD12	LEU	100	26.922	21.860	45.998	0.1000	1.200	H
ATOM	2232	HD13	LEU	100	26.027	21.981	44.468	0.1000	1.200	H
ATOM	2233	CD2	LEU	100	28.219	22.592	42.923	-0.4121	1.700	C
ATOM	2234	HD21	LEU	100	28.602	21.588	42.740	0.1000	1.200	H
ATOM	2235	HD22	LEU	100	27.282	22.723	42.380	0.1000	1.200	H
ATOM	2236	HD23	LEU	100	28.945	23.315	42.551	0.1000	1.200	H
ATOM	2237	C	LEU	100	28.563	24.401	46.890	0.5973	1.700	C
ATOM	2238	O	LEU	100	29.510	25.201	46.808	-0.5679	1.500	O
ATOM	2239	N	ILE	101	28.580	23.345	47.697	-0.4157	1.550	N
ATOM	2240	H	ILE	101	27.765	22.759	47.799	0.2719	1.300	H
ATOM	2241	CA	ILE	101	29.778	23.030	48.461	-0.0597	1.700	C
ATOM	2242	HA	ILE	101	30.144	23.950	48.916	0.0869	1.200	H
ATOM	2243	CB	ILE	101	29.524	22.005	49.574	0.1303	1.700	C
ATOM	2244	HB	ILE	101	29.055	21.120	49.139	0.0187	1.200	H
ATOM	2245	CG2	ILE	101	30.862	21.591	50.208	-0.3204	1.700	C
ATOM	2246	HG21	ILE	101	30.669	21.005	51.107	0.0882	1.200	H
ATOM	2247	HG22	ILE	101	31.431	20.962	49.525	0.0882	1.200	H
ATOM	2248	HG23	ILE	101	31.462	22.459	50.477	0.0882	1.200	H
ATOM	2249	CG1	ILE	101	28.573	22.589	50.633	-0.0430	1.700	C
ATOM	2250	HG12	ILE	101	27.722	23.063	50.143	0.0236	1.200	H
ATOM	2251	HG13	ILE	101	28.175	21.771	51.235	0.0236	1.200	H
ATOM	2252	CD1	ILE	101	29.212	23.590	51.568	-0.0660	1.700	C
ATOM	2253	HD11	ILE	101	28.454	24.284	51.927	0.0186	1.200	H
ATOM	2254	HD12	ILE	101	29.593	23.052	52.427	0.0186	1.200	H
ATOM	2255	HD13	ILE	101	30.019	24.129	51.083	0.0186	1.200	H
ATOM	2256	C	ILE	101	30.833	22.502	47.496	0.5973	1.700	C
ATOM	2257	O	ILE	101	30.567	21.637	46.646	-0.5679	1.500	O
ATOM	2258	N	HIS	102	32.024	23.067	47.616	-0.4157	1.550	N
ATOM	2259	H	HIS	102	32.167	23.770	48.326	0.2719	1.300	H
ATOM	2260	CA	HIS	102	33.137	22.720	46.758	-0.0581	1.700	C
ATOM	2261	HA	HIS	102	32.769	22.717	45.732	0.1360	1.200	H
ATOM	2262	CB	HIS	102	34.209	23.789	46.851	-0.0074	1.700	C
ATOM	2263	HB2	HIS	102	33.755	24.762	46.659	0.0367	1.200	H
ATOM	2264	HB3	HIS	102	34.616	23.797	47.862	0.0367	1.200	H
ATOM	2265	CG	HIS	102	35.318	23.593	45.878	0.1868	1.700	C
ATOM	2266	ND1	HIS	102	36.582	23.204	46.257	-0.5432	1.550	N
ATOM	2267	CE1	HIS	102	37.341	23.077	45.184	0.1635	1.700	C
ATOM	2268	HE1	HIS	102	38.382	22.785	45.172	0.1435	1.200	H
ATOM	2269	NE2	HIS	102	36.611	23.369	44.124	-0.2795	1.550	N
ATOM	2270	HE2	HIS	102	36.926	23.326	43.169	0.3339	1.300	H
ATOM	2271	CD2	HIS	102	35.343	23.697	44.530	-0.2207	1.700	C
ATOM	2272	HD2	HIS	102	34.530	24.038	43.943	0.1862	1.200	H
ATOM	2273	C	HIS	102	33.784	21.380	47.037	0.5973	1.700	C
ATOM	2274	O	HIS	102	33.880	20.945	48.184	-0.5679	1.500	O
ATOM	2275	N	SER	103	34.283	20.766	45.971	-0.4157	1.550	N
ATOM	2276	H	SER	103	34.211	21.211	45.067	0.2719	1.300	H
ATOM	2277	CA	SER	103	34.981	19.488	46.040	-0.0249	1.700	C

ATOM	2278	HA	SER	103	35.631	19.477	46.916	0.0843	1.200	H
ATOM	2279	CB	SER	103	33.988	18.323	46.129	0.2117	1.700	C
ATOM	2280	HB2	SER	103	34.545	17.405	46.323	0.0352	1.200	H
ATOM	2281	HB3	SER	103	33.291	18.487	46.952	0.0352	1.200	H
ATOM	2282	OG	SER	103	33.269	18.166	44.921	-0.6546	1.500	O
ATOM	2283	HG	SER	103	33.650	18.767	44.274	0.4275	1.200	H
ATOM	2284	C	SER	103	35.824	19.366	44.772	0.5973	1.700	C
ATOM	2285	O	SER	103	35.408	19.812	43.698	-0.5679	1.500	O
ATOM	2286	N	GLN	104	37.020	18.802	44.910	-0.4157	1.550	N
ATOM	2287	H	GLN	104	37.332	18.486	45.816	0.2719	1.300	H
ATOM	2288	CA	GLN	104	37.915	18.620	43.783	-0.0031	1.700	C
ATOM	2289	HA	GLN	104	38.205	19.607	43.421	0.0850	1.200	H
ATOM	2290	CB	GLN	104	39.129	17.797	44.178	-0.0036	1.700	C
ATOM	2291	HB2	GLN	104	39.540	18.197	45.107	0.0171	1.200	H
ATOM	2292	HB3	GLN	104	38.840	16.762	44.368	0.0171	1.200	H
ATOM	2293	CG	GLN	104	40.201	17.826	43.135	-0.0645	1.700	C
ATOM	2294	HG2	GLN	104	41.075	17.284	43.498	0.0352	1.200	H
ATOM	2295	HG3	GLN	104	39.848	17.321	42.238	0.0352	1.200	H
ATOM	2296	CD	GLN	104	40.604	19.246	42.815	0.6951	1.700	C
ATOM	2297	OE1	GLN	104	40.781	20.066	43.720	-0.6086	1.500	O
ATOM	2298	NE2	GLN	104	40.734	19.557	41.533	-0.9407	1.550	N
ATOM	2299	HE21	GLN	104	40.505	18.879	40.816	0.4251	1.300	H
ATOM	2300	HE22	GLN	104	41.067	20.469	41.267	0.4251	1.300	H
ATOM	2301	C	GLN	104	37.175	17.889	42.696	0.5973	1.700	C
ATOM	2302	O	GLN	104	37.314	18.214	41.524	-0.5679	1.500	O
ATOM	2303	N	ARG	105	36.373	16.905	43.083	-0.3479	1.550	N
ATOM	2304	H	ARG	105	36.301	16.657	44.058	0.2747	1.300	H
ATOM	2305	CA	ARG	105	35.617	16.155	42.095	-0.2637	1.700	C
ATOM	2306	HA	ARG	105	36.329	15.799	41.347	0.1560	1.200	H
ATOM	2307	CB	ARG	105	34.952	14.925	42.725	-0.0007	1.700	C
ATOM	2308	HB2	ARG	105	35.731	14.219	43.020	0.0327	1.200	H
ATOM	2309	HB3	ARG	105	34.419	15.231	43.627	0.0327	1.200	H
ATOM	2310	CG	ARG	105	33.947	14.211	41.804	0.0390	1.700	C
ATOM	2311	HG2	ARG	105	33.590	13.307	42.300	0.0285	1.200	H
ATOM	2312	HG3	ARG	105	33.083	14.858	41.645	0.0285	1.200	H
ATOM	2313	CD	ARG	105	34.533	13.843	40.449	0.0486	1.700	C
ATOM	2314	HD2	ARG	105	33.729	13.552	39.780	0.0687	1.200	H
ATOM	2315	HD3	ARG	105	35.025	14.695	39.990	0.0687	1.200	H
ATOM	2316	NE	ARG	105	35.515	12.768	40.528	-0.5295	1.550	N
ATOM	2317	HE	ARG	105	36.475	13.016	40.732	0.3456	1.300	H
ATOM	2318	CZ	ARG	105	35.238	11.484	40.312	0.8076	1.700	C
ATOM	2319	NH1	ARG	105	34.000	11.106	40.003	-0.8627	1.550	N
ATOM	2320	HH11	ARG	105	33.798	10.135	39.821	0.4478	1.300	H
ATOM	2321	HH12	ARG	105	33.245	11.784	40.012	0.4478	1.300	H
ATOM	2322	NH2	ARG	105	36.208	10.579	40.376	-0.8627	1.550	N
ATOM	2323	HH21	ARG	105	37.154	10.869	40.602	0.4478	1.300	H
ATOM	2324	HH22	ARG	105	36.030	9.621	40.112	0.4478	1.300	H
ATOM	2325	C	ARG	105	34.595	17.028	41.366	0.7341	1.700	C
ATOM	2326	O	ARG	105	34.556	17.043	40.134	-0.5894	1.500	O
ATOM	2327	N	ARG	106	33.789	17.771	42.117	-0.3479	1.550	N
ATOM	2328	H	ARG	106	33.834	17.686	43.119	0.2747	1.300	H
ATOM	2329	CA	ARG	106	32.778	18.635	41.514	-0.2637	1.700	C
ATOM	2330	HA	ARG	106	32.072	18.032	40.940	0.1560	1.200	H
ATOM	2331	CB	ARG	106	32.036	19.406	42.583	-0.0007	1.700	C
ATOM	2332	HB2	ARG	106	32.736	19.846	43.291	0.0327	1.200	H
ATOM	2333	HB3	ARG	106	31.561	20.259	42.093	0.0327	1.200	H
ATOM	2334	CG	ARG	106	30.926	18.664	43.247	0.0390	1.700	C
ATOM	2335	HG2	ARG	106	30.099	18.559	42.542	0.0285	1.200	H
ATOM	2336	HG3	ARG	106	31.236	17.667	43.560	0.0285	1.200	H
ATOM	2337	CD	ARG	106	30.487	19.470	44.427	0.0486	1.700	C
ATOM	2338	HD2	ARG	106	31.301	19.538	45.145	0.0687	1.200	H
ATOM	2339	HD3	ARG	106	30.288	20.489	44.092	0.0687	1.200	H
ATOM	2340	NE	ARG	106	29.253	18.971	44.997	-0.5295	1.550	N
ATOM	2341	HE	ARG	106	28.451	18.893	44.388	0.3456	1.300	H
ATOM	2342	CZ	ARG	106	29.113	18.660	46.276	0.8076	1.700	C
ATOM	2343	NH1	ARG	106	30.142	18.787	47.107	-0.8627	1.550	N
ATOM	2344	HH11	ARG	106	31.006	19.190	46.779	0.4478	1.300	H
ATOM	2345	HH12	ARG	106	30.011	18.617	48.093	0.4478	1.300	H
ATOM	2346	NH2	ARG	106	27.925	18.286	46.739	-0.8627	1.550	N
ATOM	2347	HH21	ARG	106	27.808	18.077	47.719	0.4478	1.300	H
ATOM	2348	HH22	ARG	106	27.127	18.267	46.122	0.4478	1.300	H
ATOM	2349	C	ARG	106	33.427	19.630	40.573	0.7341	1.700	C
ATOM	2350	O	ARG	106	32.947	19.864	39.462	-0.5894	1.500	O
ATOM	2351	N	GLN	107	34.533	20.207	41.017	-0.4157	1.550	N
ATOM	2352	H	GLN	107	34.921	19.950	41.911	0.2719	1.300	H
ATOM	2353	CA	GLN	107	35.229	21.170	40.199	-0.0031	1.700	C
ATOM	2354	HA	GLN	107	34.501	21.908	39.859	0.0850	1.200	H

ATOM	2355	CB	GLN	107	36.297	21.899	40.994	-0.0036	1.700	C
ATOM	2356	HB2	GLN	107	35.873	22.187	41.953	0.0171	1.200	H
ATOM	2357	HB3	GLN	107	37.142	21.229	41.171	0.0171	1.200	H
ATOM	2358	CG	GLN	107	36.750	23.127	40.280	-0.0645	1.700	C
ATOM	2359	HG2	GLN	107	36.947	22.884	39.241	0.0352	1.200	H
ATOM	2360	HG3	GLN	107	36.010	23.887	40.250	0.0352	1.200	H
ATOM	2361	CD	GLN	107	38.008	23.674	40.846	0.6951	1.700	C
ATOM	2362	OE1	GLN	107	38.186	23.734	42.059	-0.6086	1.500	O
ATOM	2363	NE2	GLN	107	38.911	24.068	39.976	-0.9407	1.550	N
ATOM	2364	HE21	GLN	107	39.795	24.434	40.304	0.4251	1.300	H
ATOM	2365	HE22	GLN	107	38.708	24.065	38.992	0.4251	1.300	H
ATOM	2366	C	GLN	107	35.856	20.525	38.976	0.5973	1.700	C
ATOM	2367	O	GLN	107	35.852	21.122	37.899	-0.5679	1.500	O
ATOM	2368	N	ASP	108	36.418	19.328	39.131	-0.5163	1.550	N
ATOM	2369	H	ASP	108	36.452	18.876	40.032	0.2936	1.300	H
ATOM	2370	CA	ASP	108	37.033	18.658	37.993	0.0381	1.700	C
ATOM	2371	HA	ASP	108	37.770	19.312	37.523	0.0880	1.200	H
ATOM	2372	CB	ASP	108	37.690	17.345	38.397	-0.0303	1.700	C
ATOM	2373	HB2	ASP	108	36.971	16.731	38.940	-0.0122	1.200	H
ATOM	2374	HB3	ASP	108	37.991	16.810	37.495	-0.0122	1.200	H
ATOM	2375	CG	ASP	108	38.913	17.548	39.255	0.7994	1.700	C
ATOM	2376	OD1	ASP	108	39.359	18.710	39.368	-0.8014	1.500	O
ATOM	2377	OD2	ASP	108	39.425	16.553	39.821	-0.8014	1.500	O
ATOM	2378	C	ASP	108	35.926	18.391	37.020	0.5366	1.700	C
ATOM	2379	O	ASP	108	36.111	18.522	35.814	-0.5819	1.500	O
ATOM	2380	N	ILE	109	34.761	18.046	37.548	-0.4157	1.550	N
ATOM	2381	H	ILE	109	34.661	17.971	38.548	0.2719	1.300	H
ATOM	2382	CA	ILE	109	33.617	17.793	36.701	-0.0597	1.700	C
ATOM	2383	HA	ILE	109	33.881	17.016	35.981	0.0869	1.200	H
ATOM	2384	CB	ILE	109	32.422	17.312	37.526	0.1303	1.700	C
ATOM	2385	HB	ILE	109	32.221	17.969	38.358	0.0187	1.200	H
ATOM	2386	CG2	ILE	109	31.183	17.271	36.675	-0.3204	1.700	C
ATOM	2387	HG21	ILE	109	30.306	17.003	37.263	0.0882	1.200	H
ATOM	2388	HG22	ILE	109	30.947	18.253	36.269	0.0882	1.200	H
ATOM	2389	HG23	ILE	109	31.307	16.566	35.851	0.0882	1.200	H
ATOM	2390	CG1	ILE	109	32.722	15.915	38.074	-0.0430	1.700	C
ATOM	2391	HG12	ILE	109	32.933	15.287	37.207	0.0236	1.200	H
ATOM	2392	HG13	ILE	109	33.615	15.796	38.638	0.0236	1.200	H
ATOM	2393	CD1	ILE	109	31.549	15.261	38.737	-0.0660	1.700	C
ATOM	2394	HD11	ILE	109	31.859	14.331	39.206	0.0186	1.200	H
ATOM	2395	HD12	ILE	109	31.142	15.919	39.506	0.0186	1.200	H
ATOM	2396	HD13	ILE	109	30.775	15.000	38.015	0.0186	1.200	H
ATOM	2397	C	ILE	109	33.288	19.064	35.913	0.5973	1.700	C
ATOM	2398	O	ILE	109	33.105	19.017	34.691	-0.5679	1.500	O
ATOM	2399	N	LEU	110	33.288	20.207	36.595	-0.4157	1.550	N
ATOM	2400	H	LEU	110	33.499	20.199	37.582	0.2719	1.300	H
ATOM	2401	CA	LEU	110	33.021	21.486	35.946	-0.0518	1.700	C
ATOM	2402	HA	LEU	110	32.013	21.465	35.529	0.0922	1.200	H
ATOM	2403	CB	LEU	110	33.140	22.614	36.965	-0.1102	1.700	C
ATOM	2404	HB2	LEU	110	32.956	22.176	37.948	0.0457	1.200	H
ATOM	2405	HB3	LEU	110	34.172	22.956	37.018	0.0457	1.200	H
ATOM	2406	CG	LEU	110	32.227	23.843	36.930	0.3531	1.700	C
ATOM	2407	HG	LEU	110	31.240	23.576	37.310	-0.0361	1.200	H
ATOM	2408	CD1	LEU	110	32.859	24.877	37.817	-0.4121	1.700	C
ATOM	2409	HD11	LEU	110	32.326	25.807	37.719	0.1000	1.200	H
ATOM	2410	HD12	LEU	110	32.843	24.546	38.855	0.1000	1.200	H
ATOM	2411	HD13	LEU	110	33.885	25.071	37.510	0.1000	1.200	H
ATOM	2412	CD2	LEU	110	32.075	24.394	35.535	-0.4121	1.700	C
ATOM	2413	HD21	LEU	110	31.430	25.271	35.548	0.1000	1.200	H
ATOM	2414	HD22	LEU	110	33.057	24.665	35.156	0.1000	1.200	H
ATOM	2415	HD23	LEU	110	31.629	23.651	34.876	0.1000	1.200	H
ATOM	2416	C	LEU	110	34.043	21.703	34.837	0.5973	1.700	C
ATOM	2417	O	LEU	110	33.685	21.760	33.660	-0.5679	1.500	O
ATOM	2418	N	ASP	111	35.320	21.779	35.224	-0.4157	1.550	N
ATOM	2419	H	ASP	111	35.538	21.694	36.205	0.2719	1.300	H
ATOM	2420	CA	ASP	111	36.447	21.993	34.299	0.0341	1.700	C
ATOM	2421	HA	ASP	111	36.399	23.025	33.949	0.0864	1.200	H
ATOM	2422	CB	ASP	111	37.771	21.790	35.019	-0.0316	1.700	C
ATOM	2423	HB2	ASP	111	37.832	20.768	35.399	0.0488	1.200	H
ATOM	2424	HB3	ASP	111	38.584	21.945	34.317	0.0488	1.200	H
ATOM	2425	CG	ASP	111	37.970	22.769	36.152	0.6462	1.700	C
ATOM	2426	OD1	ASP	111	37.621	23.953	35.987	-0.5554	1.500	O
ATOM	2427	OD2	ASP	111	38.469	22.359	37.218	-0.6376	1.500	O
ATOM	2428	HD2	ASP	111	38.567	23.063	37.855	0.4747	1.200	H
ATOM	2429	C	ASP	111	36.409	21.103	33.075	0.5973	1.700	C
ATOM	2430	O	ASP	111	36.720	21.542	31.961	-0.5679	1.500	O
ATOM	2431	N	LEU	112	36.062	19.839	33.288	-0.4157	1.550	N

ATOM	2432	H	LEU	112	35.839	19.523	34.222	0.2719	1.300	H
ATOM	2433	CA	LEU	112	35.957	18.899	32.192	-0.0518	1.700	C
ATOM	2434	HA	LEU	112	36.861	18.957	31.587	0.0922	1.200	H
ATOM	2435	CB	LEU	112	35.795	17.459	32.689	-0.1102	1.700	C
ATOM	2436	HB2	LEU	112	35.083	17.474	33.516	0.0457	1.200	H
ATOM	2437	HB3	LEU	112	35.335	16.860	31.903	0.0457	1.200	H
ATOM	2438	CG	LEU	112	37.087	16.765	33.132	0.3531	1.700	C
ATOM	2439	HG	LEU	112	37.714	17.486	33.659	-0.0361	1.200	H
ATOM	2440	CD1	LEU	112	36.753	15.657	34.111	-0.4121	1.700	C
ATOM	2441	HD11	LEU	112	36.191	16.061	34.950	0.1000	1.200	H
ATOM	2442	HD12	LEU	112	36.159	14.887	33.619	0.1000	1.200	H
ATOM	2443	HD13	LEU	112	37.673	15.213	34.491	0.1000	1.200	H
ATOM	2444	CD2	LEU	112	37.858	16.249	31.922	-0.4121	1.700	C
ATOM	2445	HD21	LEU	112	38.711	15.660	32.256	0.1000	1.200	H
ATOM	2446	HD22	LEU	112	37.223	15.639	31.288	0.1000	1.200	H
ATOM	2447	HD23	LEU	112	38.225	17.092	31.336	0.1000	1.200	H
ATOM	2448	C	LEU	112	34.786	19.285	31.324	0.5973	1.700	C
ATOM	2449	O	LEU	112	34.899	19.233	30.097	-0.5679	1.500	O
ATOM	2450	N	TRP	113	33.669	19.690	31.929	-0.4157	1.550	N
ATOM	2451	H	TRP	113	33.615	19.740	32.937	0.2719	1.300	H
ATOM	2452	CA	TRP	113	32.510	20.093	31.124	-0.0275	1.700	C
ATOM	2453	HA	TRP	113	32.232	19.258	30.478	0.1123	1.200	H
ATOM	2454	CB	TRP	113	31.298	20.453	31.989	-0.0050	1.700	C
ATOM	2455	HB2	TRP	113	30.980	19.570	32.544	0.0339	1.200	H
ATOM	2456	HB3	TRP	113	31.540	21.233	32.704	0.0339	1.200	H
ATOM	2457	CG	TRP	113	30.158	20.934	31.135	-0.1415	1.700	C
ATOM	2458	CD1	TRP	113	29.380	20.177	30.299	-0.1638	1.700	C
ATOM	2459	HD1	TRP	113	29.468	19.106	30.178	0.2062	1.200	H
ATOM	2460	NE1	TRP	113	28.546	20.987	29.566	-0.3418	1.550	N
ATOM	2461	HE1	TRP	113	27.926	20.653	28.843	0.3412	1.300	H
ATOM	2462	CE2	TRP	113	28.757	22.292	29.929	0.1380	1.700	C
ATOM	2463	CZ2	TRP	113	28.153	23.459	29.473	-0.2601	1.700	C
ATOM	2464	HZ2	TRP	113	27.397	23.434	28.703	0.1572	1.200	H
ATOM	2465	CH2	TRP	113	28.568	24.638	30.019	-0.1134	1.700	C
ATOM	2466	HH2	TRP	113	28.149	25.562	29.653	0.1417	1.200	H
ATOM	2467	CZ3	TRP	113	29.566	24.683	31.004	-0.1972	1.700	C
ATOM	2468	HZ3	TRP	113	29.880	25.639	31.397	0.1447	1.200	H
ATOM	2469	CE3	TRP	113	30.169	23.524	31.462	-0.2387	1.700	C
ATOM	2470	HE3	TRP	113	30.939	23.561	32.217	0.1700	1.200	H
ATOM	2471	CD2	TRP	113	29.763	22.298	30.920	0.1243	1.700	C
ATOM	2472	C	TRP	113	32.888	21.278	30.234	0.5973	1.700	C
ATOM	2473	O	TRP	113	32.692	21.248	29.011	-0.5679	1.500	O
ATOM	2474	N	ILE	114	33.460	22.311	30.849	-0.4157	1.550	N
ATOM	2475	H	ILE	114	33.622	22.269	31.845	0.2719	1.300	H
ATOM	2476	CA	ILE	114	33.900	23.503	30.113	-0.0597	1.700	C
ATOM	2477	HA	ILE	114	33.035	23.951	29.623	0.0869	1.200	H
ATOM	2478	CB	ILE	114	34.536	24.551	31.081	0.1303	1.700	C
ATOM	2479	HB	ILE	114	35.388	24.088	31.582	0.0187	1.200	H
ATOM	2480	CG2	ILE	114	35.028	25.748	30.326	-0.3204	1.700	C
ATOM	2481	HG21	ILE	114	35.698	26.349	30.938	0.0882	1.200	H
ATOM	2482	HG22	ILE	114	35.622	25.457	29.468	0.0882	1.200	H
ATOM	2483	HG23	ILE	114	34.190	26.351	29.976	0.0882	1.200	H
ATOM	2484	CG1	ILE	114	33.527	24.994	32.137	-0.0430	1.700	C
ATOM	2485	HG12	ILE	114	32.644	25.394	31.636	0.0236	1.200	H
ATOM	2486	HG13	ILE	114	33.220	24.144	32.743	0.0236	1.200	H
ATOM	2487	CD1	ILE	114	34.073	26.063	33.057	-0.0660	1.700	C
ATOM	2488	HD11	ILE	114	34.785	25.574	33.716	0.0186	1.200	H
ATOM	2489	HD12	ILE	114	34.493	26.921	32.548	0.0186	1.200	H
ATOM	2490	HD13	ILE	114	33.256	26.436	33.674	0.0186	1.200	H
ATOM	2491	C	ILE	114	34.918	23.090	29.031	0.5973	1.700	C
ATOM	2492	O	ILE	114	34.898	23.607	27.919	-0.5679	1.500	O
ATOM	2493	N	TYR	115	35.806	22.155	29.359	-0.4157	1.550	N
ATOM	2494	H	TYR	115	35.792	21.746	30.283	0.2719	1.300	H
ATOM	2495	CA	TYR	115	36.799	21.675	28.405	-0.0014	1.700	C
ATOM	2496	HA	TYR	115	37.371	22.530	28.045	0.0876	1.200	H
ATOM	2497	CB	TYR	115	37.744	20.684	29.062	-0.0152	1.700	C
ATOM	2498	HB2	TYR	115	38.268	21.200	29.864	0.0295	1.200	H
ATOM	2499	HB3	TYR	115	37.183	19.870	29.509	0.0295	1.200	H
ATOM	2500	CG	TYR	115	38.757	20.098	28.101	-0.0011	1.700	C
ATOM	2501	CD1	TYR	115	39.558	20.927	27.326	-0.1906	1.700	C
ATOM	2502	HD1	TYR	115	39.424	21.996	27.372	0.1699	1.200	H
ATOM	2503	CE1	TYR	115	40.545	20.414	26.498	-0.2341	1.700	C
ATOM	2504	HE1	TYR	115	41.170	21.083	25.926	0.1656	1.200	H
ATOM	2505	CZ	TYR	115	40.739	19.056	26.444	0.3226	1.700	C
ATOM	2506	OH	TYR	115	41.771	18.572	25.682	-0.5579	1.500	O
ATOM	2507	HH	TYR	115	42.262	19.265	25.237	0.3992	1.200	H
ATOM	2508	CE2	TYR	115	39.950	18.199	27.192	-0.2341	1.700	C

ATOM	2509	HE2	TYR	115	40.095	17.131	27.133	0.1656	1.200	H
ATOM	2510	CD2	TYR	115	38.960	18.724	28.016	-0.1906	1.700	C
ATOM	2511	HD2	TYR	115	38.353	18.052	28.607	0.1699	1.200	H
ATOM	2512	C	TYR	115	36.151	20.983	27.214	0.5973	1.700	C
ATOM	2513	O	TYR	115	36.506	21.246	26.059	-0.5679	1.500	O
ATOM	2514	N	HIS	116	35.234	20.066	27.496	-0.4157	1.550	N
ATOM	2515	H	HIS	116	34.971	19.888	28.451	0.2719	1.300	H
ATOM	2516	CA	HIS	116	34.564	19.337	26.434	-0.0581	1.700	C
ATOM	2517	HA	HIS	116	35.295	18.793	25.860	0.1360	1.200	H
ATOM	2518	CB	HIS	116	33.639	18.289	27.022	-0.0074	1.700	C
ATOM	2519	HB2	HIS	116	32.958	18.753	27.738	0.0367	1.200	H
ATOM	2520	HB3	HIS	116	33.041	17.856	26.219	0.0367	1.200	H
ATOM	2521	CG	HIS	116	34.367	17.175	27.689	0.1868	1.700	C
ATOM	2522	ND1	HIS	116	34.026	16.705	28.938	-0.5432	1.550	N
ATOM	2523	CE1	HIS	116	34.884	15.769	29.302	0.1635	1.700	C
ATOM	2524	HE1	HIS	116	34.858	15.220	30.231	0.1435	1.200	H
ATOM	2525	NE2	HIS	116	35.765	15.614	28.329	-0.2795	1.550	N
ATOM	2526	HE2	HIS	116	36.539	14.966	28.345	0.3339	1.300	H
ATOM	2527	CD2	HIS	116	35.463	16.479	27.307	-0.2207	1.700	C
ATOM	2528	HD2	HIS	116	36.016	16.608	26.388	0.1862	1.200	H
ATOM	2529	C	HIS	116	33.760	20.256	25.552	0.5973	1.700	C
ATOM	2530	O	HIS	116	33.891	20.244	24.319	-0.5679	1.500	O
ATOM	2531	N	THR	117	32.949	21.070	26.215	-0.4157	1.550	N
ATOM	2532	H	THR	117	32.929	21.012	27.222	0.2719	1.300	H
ATOM	2533	CA	THR	117	32.041	22.013	25.592	-0.0389	1.700	C
ATOM	2534	HA	THR	117	31.475	21.471	24.835	0.1007	1.200	H
ATOM	2535	CB	THR	117	31.044	22.480	26.668	0.3654	1.700	C
ATOM	2536	HB	THR	117	31.594	22.837	27.538	0.0043	1.200	H
ATOM	2537	CG2	THR	117	30.211	23.631	26.178	-0.2438	1.700	C
ATOM	2538	HG21	THR	117	29.165	23.432	26.413	0.0642	1.200	H
ATOM	2539	HG22	THR	117	30.447	24.531	26.727	0.0642	1.200	H
ATOM	2540	HG23	THR	117	30.255	23.779	25.101	0.0642	1.200	H
ATOM	2541	OG1	THR	117	30.208	21.376	27.066	-0.6761	1.500	O
ATOM	2542	HG1	THR	117	29.859	20.960	26.276	0.4102	1.200	H
ATOM	2543	C	THR	117	32.673	23.220	24.887	0.5973	1.700	C
ATOM	2544	O	THR	117	32.385	23.493	23.718	-0.5679	1.500	O
ATOM	2545	N	GLN	118	33.585	23.900	25.569	-0.4157	1.550	N
ATOM	2546	H	GLN	118	33.807	23.630	26.514	0.2719	1.300	H
ATOM	2547	CA	GLN	118	34.183	25.110	25.022	-0.0031	1.700	C
ATOM	2548	HA	GLN	118	33.652	25.392	24.113	0.0850	1.200	H
ATOM	2549	CB	GLN	118	33.977	26.265	26.004	-0.0036	1.700	C
ATOM	2550	HB2	GLN	118	34.496	26.024	26.931	0.0171	1.200	H
ATOM	2551	HB3	GLN	118	34.427	27.169	25.600	0.0171	1.200	H
ATOM	2552	CG	GLN	118	32.516	26.551	26.344	-0.0645	1.700	C
ATOM	2553	HG2	GLN	118	32.086	25.688	26.829	0.0352	1.200	H
ATOM	2554	HG3	GLN	118	32.499	27.368	27.066	0.0352	1.200	H
ATOM	2555	CD	GLN	118	31.734	26.999	25.123	0.6951	1.700	C
ATOM	2556	OE1	GLN	118	30.553	26.420	24.928	-0.6086	1.500	O
ATOM	2557	NE2	GLN	118	32.178	27.875	24.368	-0.9407	1.550	N
ATOM	2558	HE21	GLN	118	31.607	28.183	23.595	0.4251	1.300	H
ATOM	2559	HE22	GLN	118	33.075	28.292	24.553	0.4251	1.300	H
ATOM	2560	C	GLN	118	35.633	25.056	24.613	0.5973	1.700	C
ATOM	2561	O	GLN	118	36.112	26.000	24.006	-0.5679	1.500	O
ATOM	2562	N	GLY	119	36.356	24.001	24.987	-0.4157	1.550	N
ATOM	2563	H	GLY	119	35.923	23.238	25.491	0.2719	1.300	H
ATOM	2564	CA	GLY	119	37.764	23.885	24.599	-0.0252	1.700	C
ATOM	2565	HA2	GLY	119	38.020	22.825	24.575	0.0698	1.200	H
ATOM	2566	HA3	GLY	119	37.895	24.281	23.593	0.0698	1.200	H
ATOM	2567	C	GLY	119	38.786	24.591	25.477	0.5973	1.700	C
ATOM	2568	O	GLY	119	39.948	24.767	25.096	-0.5679	1.500	O
ATOM	2569	N	TYR	120	38.374	24.972	26.676	-0.4157	1.550	N
ATOM	2570	H	TYR	120	37.425	24.795	26.972	0.2719	1.300	H
ATOM	2571	CA	TYR	120	39.266	25.650	27.572	-0.0014	1.700	C
ATOM	2572	HA	TYR	120	40.035	26.187	27.023	0.0876	1.200	H
ATOM	2573	CB	TYR	120	38.491	26.674	28.412	-0.0152	1.700	C
ATOM	2574	HB2	TYR	120	37.664	26.180	28.919	0.0295	1.200	H
ATOM	2575	HB3	TYR	120	39.158	27.068	29.181	0.0295	1.200	H
ATOM	2576	CG	TYR	120	37.982	27.834	27.602	-0.0011	1.700	C
ATOM	2577	CD1	TYR	120	38.867	28.679	26.957	-0.1906	1.700	C
ATOM	2578	HD1	TYR	120	39.928	28.516	27.065	0.1699	1.200	H
ATOM	2579	CE1	TYR	120	38.409	29.722	26.138	-0.2341	1.700	C
ATOM	2580	HE1	TYR	120	39.111	30.354	25.615	0.1656	1.200	H
ATOM	2581	CZ	TYR	120	37.059	29.911	25.971	0.3226	1.700	C
ATOM	2582	OH	TYR	120	36.652	30.877	25.100	-0.5579	1.500	O
ATOM	2583	HH	TYR	120	35.697	30.955	25.057	0.3992	1.200	H
ATOM	2584	CE2	TYR	120	36.141	29.091	26.613	-0.2341	1.700	C
ATOM	2585	HE2	TYR	120	35.080	29.247	26.485	0.1656	1.200	H

ATOM	2586	CD2	TYR	120	36.610	28.054	27.426	-0.1906	1.700	C
ATOM	2587	HD2	TYR	120	35.899	27.424	27.937	0.1699	1.200	H
ATOM	2588	C	TYR	120	39.918	24.594	28.439	0.5973	1.700	C
ATOM	2589	O	TYR	120	39.277	24.014	29.321	-0.5679	1.500	O
ATOM	2590	N	PHE	121	41.197	24.337	28.178	-0.4157	1.550	N
ATOM	2591	H	PHE	121	41.667	24.853	27.448	0.2719	1.300	H
ATOM	2592	CA	PHE	121	41.957	23.329	28.917	-0.0024	1.700	C
ATOM	2593	HA	PHE	121	41.616	22.376	28.523	0.0978	1.200	H
ATOM	2594	CB	PHE	121	43.447	23.446	28.600	-0.0343	1.700	C
ATOM	2595	HB2	PHE	121	43.564	23.679	27.541	0.0295	1.200	H
ATOM	2596	HB3	PHE	121	43.879	24.278	29.159	0.0295	1.200	H
ATOM	2597	CG	PHE	121	44.217	22.195	28.891	0.0118	1.700	C
ATOM	2598	CD1	PHE	121	44.667	21.924	30.171	-0.1256	1.700	C
ATOM	2599	HD1	PHE	121	44.466	22.620	30.967	0.1330	1.200	H
ATOM	2600	CE1	PHE	121	45.314	20.755	30.448	-0.1704	1.700	C
ATOM	2601	HE1	PHE	121	45.648	20.558	31.455	0.1430	1.200	H
ATOM	2602	CZ	PHE	121	45.528	19.829	29.441	-0.1072	1.700	C
ATOM	2603	HZ	PHE	121	46.028	18.896	29.645	0.1297	1.200	H
ATOM	2604	CE2	PHE	121	45.090	20.086	28.164	-0.1704	1.700	C
ATOM	2605	HE2	PHE	121	45.223	19.346	27.388	0.1430	1.200	H
ATOM	2606	CD2	PHE	121	44.439	21.264	27.893	-0.1256	1.700	C
ATOM	2607	HD2	PHE	121	43.981	21.427	26.946	0.1330	1.200	H
ATOM	2608	C	PHE	121	41.693	23.463	30.410	0.5973	1.700	C
ATOM	2609	O	PHE	121	41.889	24.526	30.984	-0.5679	1.500	O
ATOM	2610	N	PRO	122	41.298	22.362	31.064	-0.2548	1.550	N
ATOM	2611	CD	PRO	122	41.219	21.025	30.447	0.0192	1.700	C
ATOM	2612	HD2	PRO	122	42.116	20.765	29.888	0.0391	1.200	H
ATOM	2613	HD3	PRO	122	40.342	20.961	29.824	0.0391	1.200	H
ATOM	2614	CG	PRO	122	41.085	20.117	31.645	0.0189	1.700	C
ATOM	2615	HG2	PRO	122	42.075	19.877	32.039	0.0213	1.200	H
ATOM	2616	HG3	PRO	122	40.552	19.201	31.387	0.0213	1.200	H
ATOM	2617	CB	PRO	122	40.342	20.911	32.616	-0.0070	1.700	C
ATOM	2618	HB2	PRO	122	40.377	20.472	33.613	0.0253	1.200	H
ATOM	2619	HB3	PRO	122	39.303	20.964	32.291	0.0253	1.200	H
ATOM	2620	CA	PRO	122	40.975	22.290	32.491	-0.0266	1.700	C
ATOM	2621	HA	PRO	122	40.204	23.035	32.694	0.0641	1.200	H
ATOM	2622	C	PRO	122	42.073	22.515	33.508	0.5896	1.700	C
ATOM	2623	O	PRO	122	42.171	21.780	34.484	-0.5748	1.500	O
ATOM	2624	N	ASP	123	42.811	23.608	33.365	-0.5163	1.550	N
ATOM	2625	H	ASP	123	42.689	24.215	32.569	0.2936	1.300	H
ATOM	2626	CA	ASP	123	43.896	23.913	34.293	0.0381	1.700	C
ATOM	2627	HA	ASP	123	43.772	23.366	35.228	0.0880	1.200	H
ATOM	2628	CB	ASP	123	45.218	23.514	33.659	-0.0303	1.700	C
ATOM	2629	HB2	ASP	123	46.008	23.573	34.409	-0.0122	1.200	H
ATOM	2630	HB3	ASP	123	45.160	22.475	33.331	-0.0122	1.200	H
ATOM	2631	CG	ASP	123	45.593	24.386	32.478	0.7994	1.700	C
ATOM	2632	OD1	ASP	123	44.743	25.172	31.992	-0.8014	1.500	O
ATOM	2633	OD2	ASP	123	46.755	24.279	32.033	-0.8014	1.500	O
ATOM	2634	C	ASP	123	43.956	25.393	34.630	0.5366	1.700	C
ATOM	2635	O	ASP	123	45.022	25.927	34.927	-0.5819	1.500	O
ATOM	2636	N	TRP	124	42.815	26.056	34.597	-0.4157	1.550	N
ATOM	2637	H	TRP	124	41.964	25.588	34.322	0.2719	1.300	H
ATOM	2638	CA	TRP	124	42.790	27.481	34.834	-0.0275	1.700	C
ATOM	2639	HA	TRP	124	43.799	27.893	34.886	0.1123	1.200	H
ATOM	2640	CB	TRP	124	42.094	28.158	33.656	-0.0050	1.700	C
ATOM	2641	HB2	TRP	124	42.066	29.236	33.824	0.0339	1.200	H
ATOM	2642	HB3	TRP	124	42.677	27.978	32.751	0.0339	1.200	H
ATOM	2643	CG	TRP	124	40.695	27.658	33.438	-0.1415	1.700	C
ATOM	2644	CD1	TRP	124	40.296	26.664	32.580	-0.1638	1.700	C
ATOM	2645	HD1	TRP	124	40.937	26.224	31.864	0.2062	1.200	H
ATOM	2646	NE1	TRP	124	38.956	26.413	32.742	-0.3418	1.550	N
ATOM	2647	HE1	TRP	124	38.441	25.722	32.214	0.3412	1.300	H
ATOM	2648	CE2	TRP	124	38.458	27.258	33.703	0.1380	1.700	C
ATOM	2649	CZ2	TRP	124	37.160	27.386	34.209	-0.2601	1.700	C
ATOM	2650	HZ2	TRP	124	36.386	26.750	33.861	0.1572	1.200	H
ATOM	2651	CH2	TRP	124	36.951	28.330	35.177	-0.1134	1.700	C
ATOM	2652	HH2	TRP	124	35.965	28.434	35.599	0.1417	1.200	H
ATOM	2653	CZ3	TRP	124	37.992	29.145	35.647	-0.1972	1.700	C
ATOM	2654	HZ3	TRP	124	37.796	29.871	36.419	0.1447	1.200	H
ATOM	2655	CE3	TRP	124	39.276	29.023	35.148	-0.2387	1.700	C
ATOM	2656	HE3	TRP	124	40.067	29.658	35.513	0.1700	1.200	H
ATOM	2657	CD2	TRP	124	39.525	28.062	34.157	0.1243	1.700	C
ATOM	2658	C	TRP	124	42.086	27.848	36.113	0.5973	1.700	C
ATOM	2659	O	TRP	124	42.426	28.857	36.746	-0.5679	1.500	O
ATOM	2660	N	GLN	125	41.137	27.007	36.521	-0.4157	1.550	N
ATOM	2661	H	GLN	125	40.908	26.194	35.968	0.2719	1.300	H
ATOM	2662	CA	GLN	125	40.353	27.283	37.706	-0.0031	1.700	C

ATOM	2663	HA	GLN	125	40.093	28.342	37.671	0.0850	1.200	H
ATOM	2664	CB	GLN	125	39.021	26.514	37.691	-0.0036	1.700	C
ATOM	2665	HB2	GLN	125	38.558	26.653	36.717	0.0171	1.200	H
ATOM	2666	HB3	GLN	125	39.218	25.449	37.799	0.0171	1.200	H
ATOM	2667	CG	GLN	125	38.056	26.995	38.769	-0.0645	1.700	C
ATOM	2668	HG2	GLN	125	38.432	26.916	39.779	0.0352	1.200	H
ATOM	2669	HG3	GLN	125	37.864	28.056	38.600	0.0352	1.200	H
ATOM	2670	CD	GLN	125	36.715	26.289	38.766	0.6951	1.700	C
ATOM	2671	OE1	GLN	125	36.344	25.727	37.626	-0.6086	1.500	O
ATOM	2672	NE2	GLN	125	36.003	26.272	39.784	-0.9407	1.550	N
ATOM	2673	HE21	GLN	125	35.075	25.875	39.715	0.4251	1.300	H
ATOM	2674	HE22	GLN	125	36.421	26.499	40.674	0.4251	1.300	H
ATOM	2675	C	GLN	125	41.078	27.077	39.012	0.5973	1.700	C
ATOM	2676	O	GLN	125	40.596	26.359	39.888	-0.5679	1.500	O
ATOM	2677	N	ASN	126	42.202	27.760	39.186	-0.4157	1.550	N
ATOM	2678	H	ASN	126	42.563	28.356	38.460	0.2719	1.300	H
ATOM	2679	CA	ASN	126	42.954	27.640	40.426	0.0143	1.700	C
ATOM	2680	HA	ASN	126	42.755	26.684	40.915	0.1048	1.200	H
ATOM	2681	CB	ASN	126	44.439	27.733	40.137	-0.2041	1.700	C
ATOM	2682	HB2	ASN	126	44.673	28.756	39.842	0.0797	1.200	H
ATOM	2683	HB3	ASN	126	45.006	27.505	41.041	0.0797	1.200	H
ATOM	2684	CG	ASN	126	44.858	26.806	39.054	0.7130	1.700	C
ATOM	2685	OD1	ASN	126	44.605	25.606	39.129	-0.5931	1.500	O
ATOM	2686	ND2	ASN	126	45.464	27.350	38.005	-0.9191	1.550	N
ATOM	2687	HD21	ASN	126	45.731	26.759	37.229	0.4196	1.300	H
ATOM	2688	HD22	ASN	126	45.627	28.343	37.969	0.4196	1.300	H
ATOM	2689	C	ASN	126	42.565	28.788	41.334	0.5973	1.700	C
ATOM	2690	O	ASN	126	42.388	29.919	40.852	-0.5679	1.500	O
ATOM	2691	N	TYR	127	42.434	28.509	42.632	-0.4157	1.550	N
ATOM	2692	H	TYR	127	42.607	27.571	42.963	0.2719	1.300	H
ATOM	2693	CA	TYR	127	42.097	29.535	43.614	-0.0014	1.700	C
ATOM	2694	HA	TYR	127	41.820	30.462	43.116	0.0876	1.200	H
ATOM	2695	CB	TYR	127	40.915	29.088	44.462	-0.0152	1.700	C
ATOM	2696	HB2	TYR	127	41.152	28.168	44.999	0.0295	1.200	H
ATOM	2697	HB3	TYR	127	40.715	29.882	45.170	0.0295	1.200	H
ATOM	2698	CG	TYR	127	39.665	28.930	43.636	-0.0011	1.700	C
ATOM	2699	CD1	TYR	127	39.060	30.036	43.039	-0.1906	1.700	C
ATOM	2700	HD1	TYR	127	39.449	31.018	43.236	0.1699	1.200	H
ATOM	2701	CE1	TYR	127	37.942	29.892	42.217	-0.2341	1.700	C
ATOM	2702	HE1	TYR	127	37.456	30.751	41.792	0.1656	1.200	H
ATOM	2703	CZ	TYR	127	37.420	28.631	41.992	0.3226	1.700	C
ATOM	2704	OH	TYR	127	36.330	28.484	41.164	-0.5579	1.500	O
ATOM	2705	HH	TYR	127	35.995	27.590	41.129	0.3992	1.200	H
ATOM	2706	CE2	TYR	127	37.999	27.517	42.578	-0.2341	1.700	C
ATOM	2707	HE2	TYR	127	37.603	26.529	42.396	0.1656	1.200	H
ATOM	2708	CD2	TYR	127	39.116	27.673	43.395	-0.1906	1.700	C
ATOM	2709	HD2	TYR	127	39.578	26.796	43.826	0.1699	1.200	H
ATOM	2710	C	TYR	127	43.320	29.825	44.473	0.5973	1.700	C
ATOM	2711	O	TYR	127	44.352	29.186	44.288	-0.5679	1.500	O
ATOM	2712	N	THR	128	43.246	30.824	45.351	-0.4157	1.550	N
ATOM	2713	H	THR	128	42.399	31.365	45.446	0.2719	1.300	H
ATOM	2714	CA	THR	128	44.380	31.145	46.209	-0.0389	1.700	C
ATOM	2715	HA	THR	128	45.290	31.002	45.626	0.1007	1.200	H
ATOM	2716	CB	THR	128	44.366	32.607	46.709	0.3654	1.700	C
ATOM	2717	HB	THR	128	45.215	32.787	47.365	0.0043	1.200	H
ATOM	2718	CG2	THR	128	44.458	33.582	45.545	-0.2438	1.700	C
ATOM	2719	HG21	THR	128	45.501	33.859	45.412	0.0642	1.200	H
ATOM	2720	HG22	THR	128	44.171	33.131	44.608	0.0642	1.200	H
ATOM	2721	HG23	THR	128	43.894	34.486	45.754	0.0642	1.200	H
ATOM	2722	OG1	THR	128	43.179	32.842	47.474	-0.6761	1.500	O
ATOM	2723	HG1	THR	128	43.367	33.538	48.110	0.4102	1.200	H
ATOM	2724	C	THR	128	44.385	30.218	47.415	0.5973	1.700	C
ATOM	2725	O	THR	128	43.335	29.684	47.810	-0.5679	1.500	O
ATOM	2726	N	PRO	129	45.557	30.064	48.057	-0.2548	1.550	N
ATOM	2727	CD	PRO	129	46.804	30.794	47.793	0.0192	1.700	C
ATOM	2728	HD2	PRO	129	46.846	31.660	48.442	0.0391	1.200	H
ATOM	2729	HD3	PRO	129	46.959	31.058	46.750	0.0391	1.200	H
ATOM	2730	CG	PRO	129	47.801	29.802	48.220	0.0189	1.700	C
ATOM	2731	HG2	PRO	129	48.770	30.259	48.418	0.0213	1.200	H
ATOM	2732	HG3	PRO	129	47.881	28.991	47.493	0.0213	1.200	H
ATOM	2733	CB	PRO	129	47.217	29.308	49.505	-0.0070	1.700	C
ATOM	2734	HB2	PRO	129	47.422	30.034	50.296	0.0253	1.200	H
ATOM	2735	HB3	PRO	129	47.634	28.338	49.780	0.0253	1.200	H
ATOM	2736	CA	PRO	129	45.725	29.203	49.226	-0.0266	1.700	C
ATOM	2737	HA	PRO	129	45.442	28.178	48.984	0.0641	1.200	H
ATOM	2738	C	PRO	129	44.947	29.747	50.399	0.5896	1.700	C
ATOM	2739	O	PRO	129	44.924	30.962	50.626	-0.5748	1.500	O

ATOM	2740	N	GLY	130	44.326	28.850	51.153	-0.4157	1.550	N
ATOM	2741	H	GLY	130	44.401	27.866	50.945	0.2719	1.300	H
ATOM	2742	CA	GLY	130	43.566	29.277	52.309	-0.0252	1.700	C
ATOM	2743	HA2	GLY	130	42.964	30.153	52.065	0.0698	1.200	H
ATOM	2744	HA3	GLY	130	42.904	28.448	52.532	0.0698	1.200	H
ATOM	2745	C	GLY	130	44.422	29.566	53.537	0.5973	1.700	C
ATOM	2746	O	GLY	130	45.634	29.804	53.440	-0.5679	1.500	O
ATOM	2747	N	PRO	131	43.793	29.624	54.715	-0.2548	1.550	N
ATOM	2748	CD	PRO	131	44.441	29.811	56.022	0.0192	1.700	C
ATOM	2749	HD2	PRO	131	45.060	30.708	56.039	0.0391	1.200	H
ATOM	2750	HD3	PRO	131	45.025	28.925	56.277	0.0391	1.200	H
ATOM	2751	CG	PRO	131	43.255	29.954	56.953	0.0189	1.700	C
ATOM	2752	HG2	PRO	131	42.919	30.993	56.977	0.0213	1.200	H
ATOM	2753	HG3	PRO	131	43.503	29.618	57.961	0.0213	1.200	H
ATOM	2754	CB	PRO	131	42.219	29.085	56.331	-0.0070	1.700	C
ATOM	2755	HB2	PRO	131	41.244	29.312	56.749	0.0253	1.200	H
ATOM	2756	HB3	PRO	131	42.466	28.034	56.491	0.0253	1.200	H
ATOM	2757	CA	PRO	131	42.353	29.432	54.864	-0.0266	1.700	C
ATOM	2758	HA	PRO	131	41.957	28.608	54.276	0.0641	1.200	H
ATOM	2759	C	PRO	131	41.644	30.738	54.523	0.5896	1.700	C
ATOM	2760	O	PRO	131	42.278	31.700	54.097	-0.5748	1.500	O
ATOM	2761	N	GLY	132	40.345	30.796	54.774	-0.4157	1.550	N
ATOM	2762	H	GLY	132	39.852	30.008	55.170	0.2719	1.300	H
ATOM	2763	CA	GLY	132	39.594	31.990	54.435	-0.0252	1.700	C
ATOM	2764	HA2	GLY	132	38.757	32.094	55.126	0.0698	1.200	H
ATOM	2765	HA3	GLY	132	40.212	32.886	54.513	0.0698	1.200	H
ATOM	2766	C	GLY	132	39.052	31.847	53.023	0.5973	1.700	C
ATOM	2767	O	GLY	132	38.847	30.722	52.547	-0.5679	1.500	O
ATOM	2768	N	VAL	133	38.786	32.972	52.362	-0.4157	1.550	N
ATOM	2769	H	VAL	133	38.992	33.866	52.783	0.2719	1.300	H
ATOM	2770	CA	VAL	133	38.259	32.938	51.007	-0.0875	1.700	C
ATOM	2771	HA	VAL	133	37.604	32.077	50.950	0.0969	1.200	H
ATOM	2772	CB	VAL	133	37.420	34.210	50.665	0.2985	1.700	C
ATOM	2773	HB	VAL	133	38.007	35.099	50.900	-0.0297	1.200	H
ATOM	2774	CG1	VAL	133	37.050	34.245	49.205	-0.3192	1.700	C
ATOM	2775	HG11	VAL	133	36.676	35.246	49.006	0.0791	1.200	H
ATOM	2776	HG12	VAL	133	37.911	34.131	48.550	0.0791	1.200	H
ATOM	2777	HG13	VAL	133	36.281	33.523	48.953	0.0791	1.200	H
ATOM	2778	CG2	VAL	133	36.152	34.215	51.467	-0.3192	1.700	C
ATOM	2779	HG21	VAL	133	35.567	35.107	51.244	0.0791	1.200	H
ATOM	2780	HG22	VAL	133	35.600	33.325	51.258	0.0791	1.200	H
ATOM	2781	HG23	VAL	133	36.386	34.221	52.532	0.0791	1.200	H
ATOM	2782	C	VAL	133	39.417	32.752	50.037	0.5973	1.700	C
ATOM	2783	O	VAL	133	40.509	33.317	50.218	-0.5679	1.500	O
ATOM	2784	N	ARG	134	39.172	31.908	49.039	-0.3479	1.550	N
ATOM	2785	H	ARG	134	38.258	31.481	48.973	0.2747	1.300	H
ATOM	2786	CA	ARG	134	40.146	31.589	48.014	-0.2637	1.700	C
ATOM	2787	HA	ARG	134	41.144	31.868	48.344	0.1560	1.200	H
ATOM	2788	CB	ARG	134	40.120	30.090	47.727	-0.0007	1.700	C
ATOM	2789	HB2	ARG	134	39.395	29.848	46.961	0.0327	1.200	H
ATOM	2790	HB3	ARG	134	41.070	29.812	47.298	0.0327	1.200	H
ATOM	2791	CG	ARG	134	39.881	29.239	48.944	0.0390	1.700	C
ATOM	2792	HG2	ARG	134	38.846	29.340	49.273	0.0285	1.200	H
ATOM	2793	HG3	ARG	134	40.032	28.200	48.654	0.0285	1.200	H
ATOM	2794	CD	ARG	134	40.795	29.617	50.099	0.0486	1.700	C
ATOM	2795	HD2	ARG	134	41.832	29.454	49.811	0.0687	1.200	H
ATOM	2796	HD3	ARG	134	40.711	30.651	50.405	0.0687	1.200	H
ATOM	2797	NE	ARG	134	40.472	28.805	51.265	-0.5295	1.550	N
ATOM	2798	HE	ARG	134	39.939	29.240	52.008	0.3456	1.300	H
ATOM	2799	CZ	ARG	134	40.791	27.522	51.370	0.8076	1.700	C
ATOM	2800	NH1	ARG	134	41.458	26.925	50.384	-0.8627	1.550	N
ATOM	2801	HH11	ARG	134	41.779	27.475	49.600	0.4478	1.300	H
ATOM	2802	HH12	ARG	134	41.619	25.930	50.404	0.4478	1.300	H
ATOM	2803	NH2	ARG	134	40.370	26.815	52.411	-0.8627	1.550	N
ATOM	2804	HH21	ARG	134	40.577	25.834	52.483	0.4478	1.300	H
ATOM	2805	HH22	ARG	134	39.827	27.278	53.128	0.4478	1.300	H
ATOM	2806	C	ARG	134	39.744	32.341	46.772	0.7341	1.700	C
ATOM	2807	O	ARG	134	38.669	32.104	46.226	-0.5894	1.500	O
ATOM	2808	N	TYR	135	40.615	33.228	46.319	-0.4157	1.550	N
ATOM	2809	H	TYR	135	41.487	33.367	46.807	0.2719	1.300	H
ATOM	2810	CA	TYR	135	40.339	34.039	45.151	-0.0014	1.700	C
ATOM	2811	HA	TYR	135	39.258	34.146	45.073	0.0876	1.200	H
ATOM	2812	CB	TYR	135	40.902	35.456	45.332	-0.0152	1.700	C
ATOM	2813	HB2	TYR	135	41.978	35.417	45.475	0.0295	1.200	H
ATOM	2814	HB3	TYR	135	40.712	36.032	44.425	0.0295	1.200	H
ATOM	2815	CG	TYR	135	40.274	36.166	46.492	-0.0011	1.700	C
ATOM	2816	CD1	TYR	135	39.050	36.801	46.353	-0.1906	1.700	C

ATOM	2817	HD1	TYR	135	38.573	36.819	45.386	0.1699	1.200	H
ATOM	2818	CE1	TYR	135	38.425	37.381	47.438	-0.2341	1.700	C
ATOM	2819	HE1	TYR	135	37.472	37.871	47.312	0.1656	1.200	H
ATOM	2820	CZ	TYR	135	39.032	37.339	48.683	0.3226	1.700	C
ATOM	2821	OH	TYR	135	38.412	37.945	49.760	-0.5579	1.500	O
ATOM	2822	HH	TYR	135	37.590	38.380	49.527	0.3992	1.200	H
ATOM	2823	CE2	TYR	135	40.257	36.715	48.847	-0.2341	1.700	C
ATOM	2824	HE2	TYR	135	40.725	36.676	49.820	0.1656	1.200	H
ATOM	2825	CD2	TYR	135	40.869	36.137	47.755	-0.1906	1.700	C
ATOM	2826	HD2	TYR	135	41.807	35.621	47.891	0.1699	1.200	H
ATOM	2827	C	TYR	135	40.879	33.424	43.887	0.5973	1.700	C
ATOM	2828	O	TYR	135	41.999	32.921	43.872	-0.5679	1.500	O
ATOM	2829	N	PRO	136	40.106	33.503	42.790	-0.2548	1.550	N
ATOM	2830	CD	PRO	136	38.765	34.097	42.641	0.0192	1.700	C
ATOM	2831	HD2	PRO	136	38.698	35.071	43.127	0.0391	1.200	H
ATOM	2832	HD3	PRO	136	38.022	33.409	43.037	0.0391	1.200	H
ATOM	2833	CG	PRO	136	38.641	34.248	41.161	0.0189	1.700	C
ATOM	2834	HG2	PRO	136	39.168	35.142	40.824	0.0213	1.200	H
ATOM	2835	HG3	PRO	136	37.601	34.298	40.849	0.0213	1.200	H
ATOM	2836	CB	PRO	136	39.307	33.036	40.655	-0.0070	1.700	C
ATOM	2837	HB2	PRO	136	39.542	33.086	39.590	0.0253	1.200	H
ATOM	2838	HB3	PRO	136	38.756	32.149	40.917	0.0253	1.200	H
ATOM	2839	CA	PRO	136	40.555	32.933	41.532	-0.0266	1.700	C
ATOM	2840	HA	PRO	136	40.811	31.882	41.662	0.0641	1.200	H
ATOM	2841	C	PRO	136	41.754	33.674	40.962	0.5896	1.700	C
ATOM	2842	O	PRO	136	41.845	34.909	41.031	-0.5748	1.500	O
ATOM	2843	N	LEU	137	42.707	32.901	40.453	-0.4157	1.550	N
ATOM	2844	H	LEU	137	42.605	31.896	40.468	0.2719	1.300	H
ATOM	2845	CA	LEU	137	43.903	33.473	39.856	-0.0518	1.700	C
ATOM	2846	HA	LEU	137	44.258	34.293	40.480	0.0922	1.200	H
ATOM	2847	CB	LEU	137	45.006	32.418	39.747	-0.1102	1.700	C
ATOM	2848	HB2	LEU	137	44.686	31.691	38.998	0.0457	1.200	H
ATOM	2849	HB3	LEU	137	45.878	32.925	39.330	0.0457	1.200	H
ATOM	2850	CG	LEU	137	45.461	31.620	40.968	0.3531	1.700	C
ATOM	2851	HG	LEU	137	44.682	30.932	41.286	-0.0361	1.200	H
ATOM	2852	CD1	LEU	137	46.683	30.838	40.558	-0.4121	1.700	C
ATOM	2853	HD11	LEU	137	46.993	30.185	41.375	0.1000	1.200	H
ATOM	2854	HD12	LEU	137	46.468	30.223	39.685	0.1000	1.200	H
ATOM	2855	HD13	LEU	137	47.507	31.513	40.317	0.1000	1.200	H
ATOM	2856	CD2	LEU	137	45.813	32.520	42.105	-0.4121	1.700	C
ATOM	2857	HD21	LEU	137	46.293	31.956	42.903	0.1000	1.200	H
ATOM	2858	HD22	LEU	137	46.457	33.321	41.749	0.1000	1.200	H
ATOM	2859	HD23	LEU	137	44.896	32.955	42.495	0.1000	1.200	H
ATOM	2860	C	LEU	137	43.570	34.012	38.467	0.5973	1.700	C
ATOM	2861	O	LEU	137	44.204	34.953	37.986	-0.5679	1.500	O
ATOM	2862	N	THR	138	42.603	33.381	37.809	-0.4157	1.550	N
ATOM	2863	H	THR	138	42.118	32.612	38.247	0.2719	1.300	H
ATOM	2864	CA	THR	138	42.173	33.802	36.481	-0.0389	1.700	C
ATOM	2865	HA	THR	138	43.042	33.991	35.848	0.1007	1.200	H
ATOM	2866	CB	THR	138	41.278	32.732	35.812	0.3654	1.700	C
ATOM	2867	HB	THR	138	40.374	32.581	36.404	0.0043	1.200	H
ATOM	2868	CG2	THR	138	40.888	33.150	34.401	-0.2438	1.700	C
ATOM	2869	HG21	THR	138	40.279	32.365	33.953	0.0642	1.200	H
ATOM	2870	HG22	THR	138	40.297	34.066	34.420	0.0642	1.200	H
ATOM	2871	HG23	THR	138	41.780	33.306	33.793	0.0642	1.200	H
ATOM	2872	OG1	THR	138	41.986	31.492	35.746	-0.6761	1.500	O
ATOM	2873	HG1	THR	138	42.159	31.174	36.635	0.4102	1.200	H
ATOM	2874	C	THR	138	41.360	35.074	36.658	0.5973	1.700	C
ATOM	2875	O	THR	138	40.255	35.038	37.177	-0.5679	1.500	O
ATOM	2876	N	PHE	139	41.940	36.206	36.296	-0.4157	1.550	N
ATOM	2877	H	PHE	139	42.869	36.195	35.903	0.2719	1.300	H
ATOM	2878	CA	PHE	139	41.250	37.479	36.411	-0.0024	1.700	C
ATOM	2879	HA	PHE	139	40.904	37.606	37.436	0.0978	1.200	H
ATOM	2880	CB	PHE	139	42.181	38.616	35.983	-0.0343	1.700	C
ATOM	2881	HB2	PHE	139	43.050	38.591	36.606	0.0295	1.200	H
ATOM	2882	HB3	PHE	139	42.514	38.448	34.957	0.0295	1.200	H
ATOM	2883	CG	PHE	139	41.568	39.979	36.091	0.0118	1.700	C
ATOM	2884	CD1	PHE	139	40.710	40.293	37.143	-0.1256	1.700	C
ATOM	2885	HD1	PHE	139	40.476	39.570	37.908	0.1330	1.200	H
ATOM	2886	CE1	PHE	139	40.175	41.559	37.271	-0.1704	1.700	C
ATOM	2887	HE1	PHE	139	39.529	41.798	38.101	0.1430	1.200	H
ATOM	2888	CZ	PHE	139	40.492	42.534	36.342	-0.1072	1.700	C
ATOM	2889	HZ	PHE	139	40.079	43.528	36.440	0.1297	1.200	H
ATOM	2890	CE2	PHE	139	41.347	42.233	35.282	-0.1704	1.700	C
ATOM	2891	HE2	PHE	139	41.596	42.994	34.557	0.1430	1.200	H
ATOM	2892	CD2	PHE	139	41.878	40.958	35.162	-0.1256	1.700	C
ATOM	2893	HD2	PHE	139	42.545	40.735	34.341	0.1330	1.200	H

ATOM	2894	C	PHE	139	40.099	37.412	35.437	0.5973	1.700	C
ATOM	2895	O	PHE	139	40.324	37.157	34.254	-0.5679	1.500	O
ATOM	2896	N	GLY	140	38.884	37.638	35.923	-0.4157	1.550	N
ATOM	2897	H	GLY	140	38.751	37.858	36.900	0.2719	1.300	H
ATOM	2898	CA	GLY	140	37.737	37.599	35.047	-0.0252	1.700	C
ATOM	2899	HA2	GLY	140	37.198	38.540	35.149	0.0698	1.200	H
ATOM	2900	HA3	GLY	140	38.022	37.496	34.000	0.0698	1.200	H
ATOM	2901	C	GLY	140	36.791	36.477	35.389	0.5973	1.700	C
ATOM	2902	O	GLY	140	35.678	36.430	34.870	-0.5679	1.500	O
ATOM	2903	N	TRP	141	37.259	35.524	36.185	-0.4157	1.550	N
ATOM	2904	H	TRP	141	38.195	35.596	36.559	0.2719	1.300	H
ATOM	2905	CA	TRP	141	36.424	34.403	36.622	-0.0275	1.700	C
ATOM	2906	HA	TRP	141	35.679	34.133	35.873	0.1123	1.200	H
ATOM	2907	CB	TRP	141	37.300	33.178	36.980	-0.0050	1.700	C
ATOM	2908	HB2	TRP	141	37.750	32.788	36.067	0.0339	1.200	H
ATOM	2909	HB3	TRP	141	38.110	33.501	37.633	0.0339	1.200	H
ATOM	2910	CG	TRP	141	36.564	32.052	37.668	-0.1415	1.700	C
ATOM	2911	CD1	TRP	141	36.752	31.614	38.953	-0.1638	1.700	C
ATOM	2912	HD1	TRP	141	37.363	32.100	39.653	0.2062	1.200	H
ATOM	2913	NE1	TRP	141	35.893	30.575	39.230	-0.3418	1.550	N
ATOM	2914	HE1	TRP	141	35.842	30.109	40.124	0.3412	1.300	H
ATOM	2915	CE2	TRP	141	35.133	30.315	38.119	0.1380	1.700	C
ATOM	2916	CZ2	TRP	141	34.135	29.355	37.915	-0.2601	1.700	C
ATOM	2917	HZ2	TRP	141	33.864	28.657	38.693	0.1572	1.200	H
ATOM	2918	CH2	TRP	141	33.528	29.315	36.683	-0.1134	1.700	C
ATOM	2919	HH2	TRP	141	32.799	28.551	36.496	0.1417	1.200	H
ATOM	2920	CZ3	TRP	141	33.892	30.211	35.653	-0.1972	1.700	C
ATOM	2921	HZ3	TRP	141	33.401	30.147	34.693	0.1447	1.200	H
ATOM	2922	CE3	TRP	141	34.892	31.176	35.859	-0.2387	1.700	C
ATOM	2923	HE3	TRP	141	35.173	31.855	35.067	0.1700	1.200	H
ATOM	2924	CD2	TRP	141	35.527	31.230	37.112	0.1243	1.700	C
ATOM	2925	C	TRP	141	35.761	35.001	37.858	0.5973	1.700	C
ATOM	2926	O	TRP	141	36.451	35.384	38.817	-0.5679	1.500	O
ATOM	2927	N	CYS	142	34.441	35.141	37.822	-0.4157	1.550	N
ATOM	2928	H	CYS	142	33.921	34.849	37.009	0.2719	1.300	H
ATOM	2929	CA	CYS	142	33.720	35.766	38.939	0.0213	1.700	C
ATOM	2930	HA	CYS	142	34.390	36.493	39.385	0.1124	1.200	H
ATOM	2931	CB	CYS	142	32.523	36.579	38.430	-0.1231	1.700	C
ATOM	2932	HB2	CYS	142	31.816	35.915	37.936	0.1112	1.200	H
ATOM	2933	HB3	CYS	142	32.014	37.056	39.268	0.1112	1.200	H
ATOM	2934	SG	CYS	142	33.002	37.885	37.286	-0.3119	1.800	S
ATOM	2935	HG	CYS	142	33.860	38.495	38.111	0.1933	1.200	H
ATOM	2936	C	CYS	142	33.294	34.875	40.077	0.5973	1.700	C
ATOM	2937	O	CYS	142	32.340	35.193	40.776	-0.5679	1.500	O
ATOM	2938	N	TYR	143	33.967	33.745	40.257	-0.4157	1.550	N
ATOM	2939	H	TYR	143	34.757	33.523	39.668	0.2719	1.300	H
ATOM	2940	CA	TYR	143	33.648	32.861	41.371	-0.0014	1.700	C
ATOM	2941	HA	TYR	143	32.780	33.221	41.924	0.0876	1.200	H
ATOM	2942	CB	TYR	143	33.321	31.470	40.887	-0.0152	1.700	C
ATOM	2943	HB2	TYR	143	33.908	31.262	40.042	0.0295	1.200	H
ATOM	2944	HB3	TYR	143	33.508	30.739	41.670	0.0295	1.200	H
ATOM	2945	CG	TYR	143	31.922	31.360	40.402	-0.0011	1.700	C
ATOM	2946	CD1	TYR	143	30.900	31.045	41.277	-0.1906	1.700	C
ATOM	2947	HD1	TYR	143	31.124	30.845	42.315	0.1699	1.200	H
ATOM	2948	CE1	TYR	143	29.576	31.003	40.851	-0.2341	1.700	C
ATOM	2949	HE1	TYR	143	28.786	30.787	41.557	0.1656	1.200	H
ATOM	2950	CZ	TYR	143	29.285	31.275	39.532	0.3226	1.700	C
ATOM	2951	OH	TYR	143	27.983	31.274	39.115	-0.5579	1.500	O
ATOM	2952	HH	TYR	143	27.364	31.124	39.836	0.3992	1.200	H
ATOM	2953	CE2	TYR	143	30.295	31.580	38.635	-0.2341	1.700	C
ATOM	2954	HE2	TYR	143	30.056	31.800	37.608	0.1656	1.200	H
ATOM	2955	CD2	TYR	143	31.607	31.624	39.079	-0.1906	1.700	C
ATOM	2956	HD2	TYR	143	32.390	31.883	38.379	0.1699	1.200	H
ATOM	2957	C	TYR	143	34.803	32.803	42.336	0.5973	1.700	C
ATOM	2958	O	TYR	143	35.958	32.751	41.925	-0.5679	1.500	O
ATOM	2959	N	LYS	144	34.487	32.899	43.617	-0.3479	1.550	N
ATOM	2960	H	LYS	144	33.514	32.966	43.885	0.2747	1.300	H
ATOM	2961	CA	LYS	144	35.482	32.833	44.679	-0.2400	1.700	C
ATOM	2962	HA	LYS	144	36.480	32.618	44.302	0.1426	1.200	H
ATOM	2963	CB	LYS	144	35.488	34.128	45.493	-0.0094	1.700	C
ATOM	2964	HB2	LYS	144	36.213	34.003	46.298	0.0362	1.200	H
ATOM	2965	HB3	LYS	144	35.844	34.945	44.885	0.0362	1.200	H
ATOM	2966	CG	LYS	144	34.134	34.427	46.105	0.0187	1.700	C
ATOM	2967	HG2	LYS	144	33.532	34.900	45.337	0.0103	1.200	H
ATOM	2968	HG3	LYS	144	33.648	33.534	46.474	0.0103	1.200	H
ATOM	2969	CD	LYS	144	34.200	35.420	47.258	-0.0479	1.700	C
ATOM	2970	HD2	LYS	144	33.195	35.477	47.680	0.0621	1.200	H

ATOM	2971	HD3	LYS	144	34.855	35.060	48.032	0.0621	1.200	H
ATOM	2972	CE	LYS	144	34.587	36.810	46.811	-0.0143	1.700	C
ATOM	2973	HE2	LYS	144	35.638	36.836	46.519	0.1135	1.200	H
ATOM	2974	HE3	LYS	144	33.980	37.063	45.941	0.1135	1.200	H
ATOM	2975	NZ	LYS	144	34.314	37.814	47.886	-0.3854	1.550	N
ATOM	2976	HZ1	LYS	144	34.352	38.738	47.476	0.3400	1.300	H
ATOM	2977	HZ2	LYS	144	33.387	37.663	48.253	0.3400	1.300	H
ATOM	2978	HZ3	LYS	144	34.998	37.730	48.622	0.3400	1.300	H
ATOM	2979	C	LYS	144	35.010	31.676	45.559	0.7341	1.700	C
ATOM	2980	O	LYS	144	33.867	31.212	45.413	-0.5894	1.500	O
ATOM	2981	N	LEU	145	35.884	31.186	46.436	-0.4157	1.550	N
ATOM	2982	H	LEU	145	36.814	31.574	46.493	0.2719	1.300	H
ATOM	2983	CA	LEU	145	35.520	30.091	47.334	-0.0518	1.700	C
ATOM	2984	HA	LEU	145	34.553	29.673	47.062	0.0922	1.200	H
ATOM	2985	CB	LEU	145	36.555	28.960	47.270	-0.1102	1.700	C
ATOM	2986	HB2	LEU	145	37.516	29.391	47.470	0.0457	1.200	H
ATOM	2987	HB3	LEU	145	36.335	28.270	48.079	0.0457	1.200	H
ATOM	2988	CG	LEU	145	36.581	28.169	45.957	0.3531	1.700	C
ATOM	2989	HG	LEU	145	36.823	28.840	45.133	-0.0361	1.200	H
ATOM	2990	CD1	LEU	145	37.649	27.134	46.059	-0.4121	1.700	C
ATOM	2991	HD11	LEU	145	37.633	26.489	45.182	0.1000	1.200	H
ATOM	2992	HD12	LEU	145	38.626	27.606	46.157	0.1000	1.200	H
ATOM	2993	HD13	LEU	145	37.472	26.499	46.925	0.1000	1.200	H
ATOM	2994	CD2	LEU	145	35.236	27.507	45.671	-0.4121	1.700	C
ATOM	2995	HD21	LEU	145	35.322	26.836	44.816	0.1000	1.200	H
ATOM	2996	HD22	LEU	145	34.900	26.939	46.539	0.1000	1.200	H
ATOM	2997	HD23	LEU	145	34.495	28.263	45.423	0.1000	1.200	H
ATOM	2998	C	LEU	145	35.390	30.638	48.744	0.5973	1.700	C
ATOM	2999	O	LEU	145	36.353	31.165	49.305	-0.5679	1.500	O
ATOM	3000	N	VAL	146	34.191	30.545	49.307	-0.4157	1.550	N
ATOM	3001	H	VAL	146	33.415	30.128	48.816	0.2719	1.300	H
ATOM	3002	CA	VAL	146	33.965	31.085	50.641	-0.0875	1.700	C
ATOM	3003	HA	VAL	146	34.863	31.577	50.936	0.0969	1.200	H
ATOM	3004	CB	VAL	146	32.851	32.162	50.637	0.2985	1.700	C
ATOM	3005	HB	VAL	146	31.924	31.695	50.313	-0.0297	1.200	H
ATOM	3006	CG1	VAL	146	32.651	32.717	52.038	-0.3192	1.700	C
ATOM	3007	HG11	VAL	146	31.941	33.543	52.003	0.0791	1.200	H
ATOM	3008	HG12	VAL	146	32.233	31.959	52.700	0.0791	1.200	H
ATOM	3009	HG13	VAL	146	33.589	33.082	52.453	0.0791	1.200	H
ATOM	3010	CG2	VAL	146	33.210	33.291	49.689	-0.3192	1.700	C
ATOM	3011	HG21	VAL	146	32.341	33.948	49.607	0.0791	1.200	H
ATOM	3012	HG22</								

ATOM	3047	N	ARG	178	41.130	21.632	56.968	0.1305	1.550	N
ATOM	3048	H1	ARG	178	41.854	20.940	56.843	0.2083	1.300	H
ATOM	3049	H2	ARG	178	40.457	21.298	57.643	0.2083	1.300	H
ATOM	3050	H3	ARG	178	41.543	22.490	57.305	0.2083	1.300	H
ATOM	3051	CA	ARG	178	40.453	21.875	55.696	-0.0223	1.700	C
ATOM	3052	HA	ARG	178	41.065	22.542	55.089	0.1242	1.200	H
ATOM	3053	CB	ARG	178	40.260	20.559	54.928	0.0118	1.700	C
ATOM	3054	HB2	ARG	178	41.236	20.119	54.718	0.0226	1.200	H
ATOM	3055	HB3	ARG	178	39.675	19.861	55.530	0.0226	1.200	H
ATOM	3056	CG	ARG	178	39.534	20.838	53.616	0.0236	1.700	C
ATOM	3057	HG2	ARG	178	38.546	21.260	53.800	0.0309	1.200	H
ATOM	3058	HG3	ARG	178	40.119	21.533	53.011	0.0309	1.200	H
ATOM	3059	CD	ARG	178	39.343	19.531	52.853	0.0935	1.700	C
ATOM	3060	HD2	ARG	178	40.319	19.087	52.652	0.0527	1.200	H
ATOM	3061	HD3	ARG	178	38.757	18.843	53.464	0.0527	1.200	H
ATOM	3062	NE	ARG	178	38.640	19.763	51.572	-0.5650	1.550	N
ATOM	3063	HE	ARG	178	38.348	20.706	51.361	0.3592	1.300	H
ATOM	3064	CZ	ARG	178	38.350	18.786	50.718	0.8281	1.700	C
ATOM	3065	NH1	ARG	178	38.674	17.519	50.960	-0.8693	1.550	N
ATOM	3066	HH11	ARG	178	38.439	16.798	50.295	0.4494	1.300	H
ATOM	3067	HH12	ARG	178	39.163	17.276	51.809	0.4494	1.300	H
ATOM	3068	NH2	ARG	178	37.715	19.107	49.594	-0.8693	1.550	N
ATOM	3069	HH21	ARG	178	37.479	20.070	49.400	0.4494	1.300	H
ATOM	3070	HH22	ARG	178	37.464	18.383	48.939	0.4494	1.300	H
ATOM	3071	C	ARG	178	39.097	22.526	55.951	0.7214	1.700	C
ATOM	3072	O	ARG	178	38.273	21.995	56.709	-0.6013	1.500	O
ATOM	3073	N	GLU	179	38.872	23.682	55.334	-0.5163	1.550	N
ATOM	3074	H	GLU	179	39.575	24.098	54.742	0.2936	1.300	H
ATOM	3075	CA	GLU	179	37.611	24.393	55.509	0.0397	1.700	C
ATOM	3076	HA	GLU	179	37.215	24.226	56.512	0.1105	1.200	H
ATOM	3077	CB	GLU	179	37.803	25.898	55.310	0.0560	1.700	C
ATOM	3078	HB2	GLU	179	37.984	26.071	54.248	-0.0173	1.200	H
ATOM	3079	HB3	GLU	179	36.871	26.401	55.570	-0.0173	1.200	H
ATOM	3080	CG	GLU	179	38.933	26.555	56.073	0.0136	1.700	C
ATOM	3081	HG2	GLU	179	38.741	26.466	57.144	-0.0425	1.200	H
ATOM	3082	HG3	GLU	179	39.875	26.049	55.851	-0.0425	1.200	H
ATOM	3083	CD	GLU	179	39.087	28.020	55.693	0.8054	1.700	C
ATOM	3084	OE1	GLU	179	39.480	28.290	54.542	-0.8188	1.500	O
ATOM	3085	OE2	GLU	179	38.800	28.907	56.528	-0.8188	1.500	O
ATOM	3086	C	GLU	179	36.606	23.926	54.468	0.5366	1.700	C
ATOM	3087	O	GLU	179	36.979	23.575	53.346	-0.5819	1.500	O
ATOM	3088	N	VAL	180	35.337	23.904	54.845	-0.4157	1.550	N
ATOM	3089	H	VAL	180	35.064	24.220	55.765	0.2719	1.300	H
ATOM	3090	CA	VAL	180	34.293	23.544	53.904	-0.0875	1.700	C
ATOM	3091	HA	VAL	180	34.613	22.755	53.222	0.0969	1.200	H
ATOM	3092	CB	VAL	180	32.992	23.151	54.613	0.2985	1.700	C
ATOM	3093	HB	VAL	180	32.655	23.972	55.247	-0.0297	1.200	H
ATOM	3094	CG1	VAL	180	31.905	22.852	53.594	-0.3192	1.700	C
ATOM	3095	HG11	VAL	180	30.989	22.591	54.124	0.0791	1.200	H
ATOM	3096	HG12	VAL	180	31.709	23.734	52.986	0.0791	1.200	H
ATOM	3097	HG13	VAL	180	32.201	22.022	52.953	0.0791	1.200	H
ATOM	3098	CG2	VAL	180	33.230	21.947	55.502	-0.3192	1.700	C
ATOM	3099	HG21	VAL	180	32.291	21.649	55.971	0.0791	1.200	H
ATOM	3100	HG22	VAL	180	33.613	21.113	54.912	0.0791	1.200	H
ATOM	3101	HG23	VAL	180	33.939	22.188	56.294	0.0791	1.200	H
ATOM	3102	C	VAL	180	34.062	24.857	53.174	0.5973	1.700	C
ATOM	3103	O	VAL	180	33.764	25.870	53.811	-0.5679	1.500	O
ATOM	3104	N	LEU	181	34.243	24.842	51.855	-0.4157	1.550	N
ATOM	3105	H	LEU	181	34.467	23.970	51.402	0.2719	1.300	H
ATOM	3106	CA	LEU	181	34.085	26.022	51.010	-0.0518	1.700	C
ATOM	3107	HA	LEU	181	33.992	26.915	51.623	0.0922	1.200	H
ATOM	3108	CB	LEU	181	35.314	26.179	50.111	-0.1102	1.700	C
ATOM	3109	HB2	LEU	181	35.284	25.380	49.371	0.0457	1.200	H
ATOM	3110	HB3	LEU	181	35.218	27.123	49.576	0.0457	1.200	H
ATOM	3111	CG	LEU	181	36.677	26.128	50.802	0.3531	1.700	C
ATOM	3112	HG	LEU	181	36.754	25.219	51.393	-0.0361	1.200	H
ATOM	3113	CD1	LEU	181	37.780	26.065	49.775	-0.4121	1.700	C
ATOM	3114	HD11	LEU	181	38.730	25.890	50.273	0.1000	1.200	H
ATOM	3115	HD12	LEU	181	37.601	25.242	49.083	0.1000	1.200	H
ATOM	3116	HD13	LEU	181	37.834	27.000	49.224	0.1000	1.200	H
ATOM	3117	CD2	LEU	181	36.850	27.323	51.722	-0.4121	1.700	C
ATOM	3118	HD21	LEU	181	37.852	27.344	52.135	0.1000	1.200	H
ATOM	3119	HD22	LEU	181	36.669	28.253	51.182	0.1000	1.200	H
ATOM	3120	HD23	LEU	181	36.158	27.236	52.553	0.1000	1.200	H
ATOM	3121	C	LEU	181	32.850	25.925	50.132	0.5973	1.700	C
ATOM	3122	O	LEU	181	32.410	24.832	49.793	-0.5679	1.500	O
ATOM	3123	N	GLU	182	32.308	27.083	49.765	-0.5163	1.550	N

ATOM	3124	H	GLU	182	32.701	27.944	50.117	0.2936	1.300	H
ATOM	3125	CA	GLU	182	31.143	27.194	48.890	0.0397	1.700	C
ATOM	3126	HA	GLU	182	30.858	26.221	48.498	0.1105	1.200	H
ATOM	3127	CB	GLU	182	29.969	27.828	49.618	0.0560	1.700	C
ATOM	3128	HB2	GLU	182	30.307	28.776	50.030	-0.0173	1.200	H
ATOM	3129	HB3	GLU	182	29.253	28.080	48.834	-0.0173	1.200	H
ATOM	3130	CG	GLU	182	29.276	26.954	50.620	0.0136	1.700	C
ATOM	3131	HG2	GLU	182	29.114	26.110	49.951	-0.0425	1.200	H
ATOM	3132	HG3	GLU	182	29.827	26.230	51.231	-0.0425	1.200	H
ATOM	3133	CD	GLU	182	27.804	27.312	50.764	0.8054	1.700	C
ATOM	3134	OE1	GLU	182	27.406	28.413	50.318	-0.8188	1.500	O
ATOM	3135	OE2	GLU	182	27.030	26.473	51.281	-0.8188	1.500	O
ATOM	3136	C	GLU	182	31.510	28.129	47.750	0.5366	1.700	C
ATOM	3137	O	GLU	182	32.185	29.144	47.973	-0.5819	1.500	O
ATOM	3138	N	TRP	183	31.079	27.792	46.540	-0.4157	1.550	N
ATOM	3139	H	TRP	183	30.505	26.967	46.425	0.2719	1.300	H
ATOM	3140	CA	TRP	183	31.346	28.626	45.374	-0.0275	1.700	C
ATOM	3141	HA	TRP	183	32.392	28.929	45.338	0.1123	1.200	H
ATOM	3142	CB	TRP	183	30.966	27.891	44.103	-0.0050	1.700	C
ATOM	3143	HB2	TRP	183	30.226	27.138	44.353	0.0339	1.200	H
ATOM	3144	HB3	TRP	183	30.516	28.595	43.402	0.0339	1.200	H
ATOM	3145	CG	TRP	183	32.072	27.192	43.367	-0.1415	1.700	C
ATOM	3146	CD1	TRP	183	33.039	27.769	42.587	-0.1638	1.700	C
ATOM	3147	HD1	TRP	183	33.178	28.831	42.476	0.2062	1.200	H
ATOM	3148	NE1	TRP	183	33.728	26.803	41.890	-0.3418	1.550	N
ATOM	3149	HE1	TRP	183	34.435	27.003	41.201	0.3412	1.300	H
ATOM	3150	CE2	TRP	183	33.231	25.571	42.232	0.1380	1.700	C
ATOM	3151	CZ2	TRP	183	33.601	24.292	41.796	-0.2601	1.700	C
ATOM	3152	HZ2	TRP	183	34.294	24.165	41.010	0.1572	1.200	H
ATOM	3153	CH2	TRP	183	32.914	23.222	42.320	-0.1134	1.700	C
ATOM	3154	HH2	TRP	183	33.145	22.228	41.980	0.1417	1.200	H
ATOM	3155	CZ3	TRP	183	31.883	23.398	43.255	-0.1972	1.700	C
ATOM	3156	HZ3	TRP	183	31.363	22.536	43.645	0.1447	1.200	H
ATOM	3157	CE3	TRP	183	31.515	24.661	43.686	-0.2387	1.700	C
ATOM	3158	HE3	TRP	183	30.719	24.786	44.405	0.1700	1.200	H
ATOM	3159	CD2	TRP	183	32.194	25.776	43.170	0.1243	1.700	C
ATOM	3160	C	TRP	183	30.452	29.850	45.490	0.5973	1.700	C
ATOM	3161	O	TRP	183	29.222	29.721	45.534	-0.5679	1.500	O
ATOM	3162	N	ARG	184	31.060	31.035	45.513	-0.3479	1.550	N
ATOM	3163	H	ARG	184	32.067	31.074	45.495	0.2747	1.300	H
ATOM	3164	CA	ARG	184	30.316	32.292	45.638	-0.2637	1.700	C
ATOM	3165	HA	ARG	184	29.247	32.097	45.567	0.1560	1.200	H
ATOM	3166	CB	ARG	184	30.583	32.942	46.999	-0.0007	1.700	C
ATOM	3167	HB2	ARG	184	31.647	33.125	47.105	0.0327	1.200	H
ATOM	3168	HB3	ARG	184	30.071	33.905	47.035	0.0327	1.200	H
ATOM	3169	CG	ARG	184	30.127	32.111	48.193	0.0390	1.700	C
ATOM	3170	HG2	ARG	184	30.645	31.155	48.205	0.0285	1.200	H
ATOM	3171	HG3	ARG	184	30.457	32.681	49.044	0.0285	1.200	H
ATOM	3172	CD	ARG	184	28.605	31.862	48.199	0.0486	1.700	C
ATOM	3173	HD2	ARG	184	28.081	32.816	48.127	0.0687	1.200	H
ATOM	3174	HD3	ARG	184	28.327	31.256	47.339	0.0687	1.200	H
ATOM	3175	NE	ARG	184	28.161	31.163	49.407	-0.5295	1.550	N
ATOM	3176	HE	ARG	184	27.741	30.248	49.296	0.3456	1.300	H
ATOM	3177	CZ	ARG	184	28.357	31.604	50.654	0.8076	1.700	C
ATOM	3178	NH1	ARG	184	28.983	32.756	50.876	-0.8627	1.550	N
ATOM	3179	HH11	ARG	184	29.114	33.077	51.822	0.4478	1.300	H
ATOM	3180	HH12	ARG	184	29.299	33.306	50.095	0.4478	1.300	H
ATOM	3181	NH2	ARG	184	27.953	30.880	51.691	-0.8627	1.550	N
ATOM	3182	HH21	ARG	184	27.538	29.969	51.522	0.4478	1.300	H
ATOM	3183	HH22	ARG	184	28.112	31.191	52.635	0.4478	1.300	H
ATOM	3184	C	ARG	184	30.659	33.275	44.544	0.7341	1.700	C
ATOM	3185	O	ARG	184	31.799	33.697	44.414	-0.5894	1.500	O
ATOM	3186	N	PHE	185	29.651	33.621	43.753	-0.4157	1.550	N
ATOM	3187	H	PHE	185	28.729	33.243	43.932	0.2719	1.300	H
ATOM	3188	CA	PHE	185	29.790	34.572	42.651	-0.0024	1.700	C
ATOM	3189	HA	PHE	185	30.597	34.234	42.008	0.0978	1.200	H
ATOM	3190	CB	PHE	185	28.497	34.627	41.836	-0.0343	1.700	C
ATOM	3191	HB2	PHE	185	28.251	33.616	41.510	0.0295	1.200	H
ATOM	3192	HB3	PHE	185	27.688	34.988	42.472	0.0295	1.200	H
ATOM	3193	CG	PHE	185	28.578	35.502	40.627	0.0118	1.700	C
ATOM	3194	CD1	PHE	185	28.331	36.861	40.716	-0.1256	1.700	C
ATOM	3195	HD1	PHE	185	28.068	37.303	41.667	0.1330	1.200	H
ATOM	3196	CE1	PHE	185	28.399	37.664	39.589	-0.1704	1.700	C
ATOM	3197	HE1	PHE	185	28.139	38.705	39.670	0.1430	1.200	H
ATOM	3198	CZ	PHE	185	28.715	37.108	38.365	-0.1072	1.700	C
ATOM	3199	HZ	PHE	185	28.759	37.731	37.488	0.1297	1.200	H
ATOM	3200	CE2	PHE	185	28.962	35.762	38.264	-0.1704	1.700	C

ATOM	3201	HE2	PHE	185	29.205	35.330	37.305	0.1430	1.200	H
ATOM	3202	CD2	PHE	185	28.893	34.965	39.390	-0.1256	1.700	C
ATOM	3203	HD2	PHE	185	29.084	33.910	39.295	0.1330	1.200	H
ATOM	3204	C	PHE	185	30.069	35.957	43.206	0.5973	1.700	C
ATOM	3205	O	PHE	185	29.456	36.373	44.187	-0.5679	1.500	O
ATOM	3206	N	ASP	186	30.962	36.682	42.555	-0.5163	1.550	N
ATOM	3207	H	ASP	186	31.397	36.325	41.722	0.2936	1.300	H
ATOM	3208	CA	ASP	186	31.300	38.013	42.988	0.0381	1.700	C
ATOM	3209	HA	ASP	186	30.419	38.514	43.393	0.0880	1.200	H
ATOM	3210	CB	ASP	186	32.399	37.963	44.034	-0.0303	1.700	C
ATOM	3211	HB2	ASP	186	32.093	37.272	44.821	-0.0122	1.200	H
ATOM	3212	HB3	ASP	186	33.323	37.578	43.612	-0.0122	1.200	H
ATOM	3213	CG	ASP	186	32.642	39.297	44.683	0.7994	1.700	C
ATOM	3214	OD1	ASP	186	32.025	40.298	44.256	-0.8014	1.500	O
ATOM	3215	OD2	ASP	186	33.451	39.352	45.627	-0.8014	1.500	O
ATOM	3216	C	ASP	186	31.783	38.731	41.760	0.5366	1.700	C
ATOM	3217	O	ASP	186	32.931	38.567	41.350	-0.5819	1.500	O
ATOM	3218	N	SER	187	30.909	39.545	41.178	-0.4157	1.550	N
ATOM	3219	H	SER	187	29.985	39.664	41.567	0.2719	1.300	H
ATOM	3220	CA	SER	187	31.249	40.268	39.969	-0.0249	1.700	C
ATOM	3221	HA	SER	187	31.608	39.539	39.242	0.0843	1.200	H
ATOM	3222	CB	SER	187	30.019	40.930	39.360	0.2117	1.700	C
ATOM	3223	HB2	SER	187	30.324	41.492	38.476	0.0352	1.200	H
ATOM	3224	HB3	SER	187	29.311	40.182	39.027	0.0352	1.200	H
ATOM	3225	OG	SER	187	29.398	41.819	40.265	-0.6546	1.500	O
ATOM	3226	HG	SER	187	28.754	42.342	39.781	0.4275	1.200	H
ATOM	3227	C	SER	187	32.351	41.283	40.155	0.5973	1.700	C
ATOM	3228	O	SER	187	32.795	41.898	39.195	-0.5679	1.500	O
ATOM	3229	N	ARG	188	32.801	41.496	41.377	-0.3479	1.550	N
ATOM	3230	H	ARG	188	32.436	40.995	42.176	0.2747	1.300	H
ATOM	3231	CA	ARG	188	33.871	42.457	41.526	-0.2637	1.700	C
ATOM	3232	HA	ARG	188	33.699	43.297	40.850	0.1560	1.200	H
ATOM	3233	CB	ARG	188	33.890	43.062	42.916	-0.0007	1.700	C
ATOM	3234	HB2	ARG	188	34.591	43.900	42.925	0.0327	1.200	H
ATOM	3235	HB3	ARG	188	32.891	43.477	43.018	0.0327	1.200	H
ATOM	3236	CG	ARG	188	34.255	42.129	43.997	0.0390	1.700	C
ATOM	3237	HG2	ARG	188	33.977	41.125	43.821	0.0285	1.200	H
ATOM	3238	HG3	ARG	188	35.343	42.049	43.969	0.0285	1.200	H
ATOM	3239	CD	ARG	188	33.958	42.784	45.313	0.0486	1.700	C
ATOM	3240	HD2	ARG	188	34.125	42.042	46.093	0.0687	1.200	H
ATOM	3241	HD3	ARG	188	34.653	43.612	45.465	0.0687	1.200	H
ATOM	3242	NE	ARG	188	32.599	43.307	45.353	-0.5295	1.550	N
ATOM	3243	HE	ARG	188	32.192	43.629	44.490	0.3456	1.300	H
ATOM	3244	CZ	ARG	188	31.866	43.370	46.457	0.8076	1.700	C
ATOM	3245	NH1	ARG	188	32.367	42.932	47.615	-0.8627	1.550	N
ATOM	3246	HH11	ARG	188	31.815	42.983	48.456	0.4478	1.300	H
ATOM	3247	HH12	ARG	188	33.293	42.535	47.634	0.4478	1.300	H
ATOM	3248	NH2	ARG	188	30.644	43.902	46.406	-0.8627	1.550	N
ATOM	3249	HH21	ARG	188	30.075	43.944	47.241	0.4478	1.300	H
ATOM	3250	HH22	ARG	188	30.271	44.239	45.530	0.4478	1.300	H
ATOM	3251	C	ARG	188	35.217	41.854	41.150	0.7341	1.700	C
ATOM	3252	O	ARG	188	36.175	42.587	40.879	-0.5894	1.500	O
ATOM	3253	N	LEU	189	35.255	40.524	41.043	-0.4157	1.550	N
ATOM	3254	H	LEU	189	34.427	39.981	41.244	0.2719	1.300	H
ATOM	3255	CA	LEU	189	36.470	39.807	40.682	-0.0518	1.700	C
ATOM	3256	HA	LEU	189	37.299	40.210	41.260	0.0922	1.200	H
ATOM	3257	CB	LEU	189	36.325	38.314	40.957	-0.1102	1.700	C
ATOM	3258	HB2	LEU	189	35.459	37.953	40.409	0.0457	1.200	H
ATOM	3259	HB3	LEU	189	37.209	37.782	40.600	0.0457	1.200	H
ATOM	3260	CG	LEU	189	36.130	38.053	42.455	0.3531	1.700	C
ATOM	3261	HG	LEU	189	35.318	38.673	42.833	-0.0361	1.200	H
ATOM	3262	CD1	LEU	189	35.750	36.628	42.716	-0.4121	1.700	C
ATOM	3263	HD11	LEU	189	35.407	36.573	43.742	0.1000	1.200	H
ATOM	3264	HD12	LEU	189	34.922	36.337	42.069	0.1000	1.200	H
ATOM	3265	HD13	LEU	189	36.592	35.960	42.543	0.1000	1.200	H
ATOM	3266	CD2	LEU	189	37.389	38.416	43.204	-0.4121	1.700	C
ATOM	3267	HD21	LEU	189	37.255	38.166	44.254	0.1000	1.200	H
ATOM	3268	HD22	LEU	189	38.247	37.871	42.806	0.1000	1.200	H
ATOM	3269	HD23	LEU	189	37.583	39.486	43.163	0.1000	1.200	H
ATOM	3270	C	LEU	189	36.805	40.081	39.233	0.5973	1.700	C
ATOM	3271	O	LEU	189	37.958	39.935	38.819	-0.5679	1.500	O
ATOM	3272	N	ALA	190	35.808	40.504	38.461	-0.4157	1.550	N
ATOM	3273	H	ALA	190	34.880	40.619	38.842	0.2719	1.300	H
ATOM	3274	CA	ALA	190	36.036	40.871	37.064	0.0337	1.700	C
ATOM	3275	HA	ALA	190	36.736	40.179	36.596	0.0823	1.200	H
ATOM	3276	CB	ALA	190	34.727	40.847	36.310	-0.1825	1.700	C
ATOM	3277	HB1	ALA	190	34.832	41.335	35.344	0.0603	1.200	H

ATOM	3278	HB2	ALA	190	34.438	39.818	36.126	0.0603	1.200	H
ATOM	3279	HB3	ALA	190	33.949	41.362	36.872	0.0603	1.200	H
ATOM	3280	C	ALA	190	36.633	42.291	37.031	0.5973	1.700	C
ATOM	3281	O	ALA	190	37.087	42.757	35.984	-0.5679	1.500	O
ATOM	3282	N	PHE	191	36.631	42.964	38.191	-0.4157	1.550	N
ATOM	3283	H	PHE	191	36.229	42.535	39.009	0.2719	1.300	H
ATOM	3284	CA	PHE	191	37.130	44.338	38.340	-0.0024	1.700	C
ATOM	3285	HA	PHE	191	37.527	44.667	37.380	0.0978	1.200	H
ATOM	3286	CB	PHE	191	35.943	45.284	38.671	-0.0343	1.700	C
ATOM	3287	HB2	PHE	191	35.458	44.948	39.588	0.0295	1.200	H
ATOM	3288	HB3	PHE	191	36.336	46.285	38.855	0.0295	1.200	H
ATOM	3289	CG	PHE	191	34.918	45.381	37.551	0.0118	1.700	C
ATOM	3290	CD1	PHE	191	35.220	46.041	36.366	-0.1256	1.700	C
ATOM	3291	HD1	PHE	191	36.161	46.564	36.273	0.1330	1.200	H
ATOM	3292	CE1	PHE	191	34.330	46.006	35.247	-0.1704	1.700	C
ATOM	3293	HE1	PHE	191	34.595	46.513	34.331	0.1430	1.200	H
ATOM	3294	CZ	PHE	191	33.146	45.312	35.330	-0.1072	1.700	C
ATOM	3295	HZ	PHE	191	32.473	45.275	34.486	0.1297	1.200	H
ATOM	3296	CE2	PHE	191	32.824	44.653	36.524	-0.1704	1.700	C
ATOM	3297	HE2	PHE	191	31.894	44.109	36.604	0.1430	1.200	H
ATOM	3298	CD2	PHE	191	33.709	44.695	37.626	-0.1256	1.700	C
ATOM	3299	HD2	PHE	191	33.454	44.169	38.531	0.1330	1.200	H
ATOM	3300	C	PHE	191	38.302	44.509	39.339	0.5973	1.700	C
ATOM	3301	O	PHE	191	39.033	45.492	39.290	-0.5679	1.500	O
ATOM	3302	N	HIS	192	38.530	43.517	40.186	-0.4157	1.550	N
ATOM	3303	H	HIS	192	37.933	42.704	40.180	0.2719	1.300	H
ATOM	3304	CA	HIS	192	39.615	43.561	41.160	-0.0581	1.700	C
ATOM	3305	HA	HIS	192	40.321	44.363	40.941	0.1360	1.200	H
ATOM	3306	CB	HIS	192	39.011	43.785	42.536	-0.0074	1.700	C
ATOM	3307	HB2	HIS	192	38.439	44.714	42.513	0.0367	1.200	H
ATOM	3308	HB3	HIS	192	38.315	42.979	42.777	0.0367	1.200	H
ATOM	3309	CG	HIS	192	40.018	43.904	43.637	0.1868	1.700	C
ATOM	3310	ND1	HIS	192	39.671	43.794	44.967	-0.5432	1.550	N
ATOM	3311	CE1	HIS	192	40.738	44.008	45.714	0.1635	1.700	C
ATOM	3312	HE1	HIS	192	40.771	43.988	46.794	0.1435	1.200	H
ATOM	3313	NE2	HIS	192	41.765	44.246	44.917	-0.2795	1.550	N
ATOM	3314	HE2	HIS	192	42.713	44.438	45.220	0.3339	1.300	H
ATOM	3315	CD2	HIS	192	41.344	44.181	43.612	-0.2207	1.700	C
ATOM	3316	HD2	HIS	192	41.954	44.357	42.739	0.1862	1.200	H
ATOM	3317	C	HIS	192	40.354	42.224	41.163	0.5973	1.700	C
ATOM	3318	O	HIS	192	39.809	41.233	41.614	-0.5679	1.500	O
ATOM	3319	N	HIS	193	41.572	42.179	40.640	-0.4157	1.550	N
ATOM	3320	H	HIS	193	41.981	43.023	40.264	0.2719	1.300	H
ATOM	3321	CA	HIS	193	42.357	40.936	40.610	-0.0581	1.700	C
ATOM	3322	HA	HIS	193	41.699	40.106	40.349	0.1360	1.200	H
ATOM	3323	CB	HIS	193	43.477	41.040	39.572	-0.0074	1.700	C
ATOM	3324	HB2	HIS	193	43.064	41.544	38.697	0.0367	1.200	H
ATOM	3325	HB3	HIS	193	44.302	41.666	39.916	0.0367	1.200	H
ATOM	3326	CG	HIS	193	43.991	39.719	39.075	0.1868	1.700	C
ATOM	3327	ND1	HIS	193	44.894	39.620	38.033	-0.5432	1.550	N
ATOM	3328	CE1	HIS	193	45.162	38.346	37.807	0.1635	1.700	C
ATOM	3329	HE1	HIS	193	45.835	37.965	37.053	0.1435	1.200	H
ATOM	3330	NE2	HIS	193	44.464	37.617	38.662	-0.2795	1.550	N
ATOM	3331	HE2	HIS	193	44.487	36.610	38.725	0.3339	1.300	H
ATOM	3332	CD2	HIS	193	43.723	38.449	39.464	-0.2207	1.700	C
ATOM	3333	HD2	HIS	193	43.059	38.143	40.259	0.1862	1.200	H
ATOM	3334	C	HIS	193	42.971	40.702	41.983	0.5973	1.700	C
ATOM	3335	O	HIS	193	44.185	40.751	42.146	-0.5679	1.500	O
ATOM	3336	N	VAL	194	42.118	40.420	42.957	-0.4157	1.550	N
ATOM	3337	H	VAL	194	41.130	40.414	42.749	0.2719	1.300	H
ATOM	3338	CA	VAL	194	42.517	40.177	44.337	-0.0875	1.700	C
ATOM	3339	HA	VAL	194	42.770	41.139	44.788	0.0969	1.200	H
ATOM	3340	CB	VAL	194	41.347	39.553	45.121	0.2985	1.700	C
ATOM	3341	HB	VAL	194	41.111	38.574	44.702	-0.0297	1.200	H
ATOM	3342	CG1	VAL	194	41.729	39.373	46.562	-0.3192	1.700	C
ATOM	3343	HG11	VAL	194	40.858	39.074	47.142	0.0791	1.200	H
ATOM	3344	HG12	VAL	194	42.481	38.594	46.664	0.0791	1.200	H
ATOM	3345	HG13	VAL	194	42.112	40.308	46.972	0.0791	1.200	H
ATOM	3346	CG2	VAL	194	40.103	40.406	44.995	-0.3192	1.700	C
ATOM	3347	HG21	VAL	194	39.770	40.501	43.967	0.0791	1.200	H
ATOM	3348	HG22	VAL	194	39.292	39.946	45.559	0.0791	1.200	H
ATOM	3349	HG23	VAL	194	40.304	41.381	45.422	0.0791	1.200	H
ATOM	3350	C	VAL	194	43.732	39.248	44.473	0.5973	1.700	C
ATOM	3351	O	VAL	194	44.729	39.598	45.110	-0.5679	1.500	O
ATOM	3352	N	ALA	195	43.632	38.062	43.877	-0.4157	1.550	N
ATOM	3353	H	ALA	195	42.789	37.835	43.370	0.2719	1.300	H
ATOM	3354	CA	ALA	195	44.682	37.050	43.925	0.0337	1.700	C

ATOM	3355	HA	ALA	195	44.747	36.700	44.956	0.0823	1.200	H
ATOM	3356	CB	ALA	195	44.310	35.877	43.071	-0.1825	1.700	C
ATOM	3357	HB1	ALA	195	45.093	35.125	43.138	0.0603	1.200	H
ATOM	3358	HB2	ALA	195	43.367	35.450	43.410	0.0603	1.200	H
ATOM	3359	HB3	ALA	195	44.208	36.190	42.031	0.0603	1.200	H
ATOM	3360	C	ALA	195	46.057	37.542	43.532	0.5973	1.700	C
ATOM	3361	O	ALA	195	47.050	37.092	44.102	-0.5679	1.500	O
ATOM	3362	N	ARG	196	46.141	38.440	42.557	-0.3479	1.550	N
ATOM	3363	H	ARG	196	45.310	38.816	42.122	0.2747	1.300	H
ATOM	3364	CA	ARG	196	47.450	38.938	42.155	-0.2637	1.700	C
ATOM	3365	HA	ARG	196	48.144	38.106	42.081	0.1560	1.200	H
ATOM	3366	CB	ARG	196	47.401	39.650	40.809	-0.0007	1.700	C
ATOM	3367	HB2	ARG	196	46.962	38.984	40.067	0.0327	1.200	H
ATOM	3368	HB3	ARG	196	46.767	40.534	40.904	0.0327	1.200	H
ATOM	3369	CG	ARG	196	48.779	40.052	40.344	0.0390	1.700	C
ATOM	3370	HG2	ARG	196	49.298	40.671	41.049	0.0285	1.200	H
ATOM	3371	HG3	ARG	196	49.414	39.203	40.125	0.0285	1.200	H
ATOM	3372	CD	ARG	196	48.745	41.021	39.207	0.0486	1.700	C
ATOM	3373	HD2	ARG	196	47.789	41.546	39.181	0.0687	1.200	H
ATOM	3374	HD3	ARG	196	49.525	41.760	39.395	0.0687	1.200	H
ATOM	3375	NE	ARG	196	48.975	40.368	37.932	-0.5295	1.550	N
ATOM	3376	HE	ARG	196	48.638	39.423	37.824	0.3456	1.300	H
ATOM	3377	CZ	ARG	196	49.630	40.934	36.928	0.8076	1.700	C
ATOM	3378	NH1	ARG	196	50.116	42.154	37.073	-0.8627	1.550	N
ATOM	3379	HH11	ARG	196	50.645	42.579	36.327	0.4478	1.300	H
ATOM	3380	HH12	ARG	196	49.983	42.644	37.944	0.4478	1.300	H
ATOM	3381	NH2	ARG	196	49.766	40.298	35.769	-0.8627	1.550	N
ATOM	3382	HH21	ARG	196	50.307	40.710	35.025	0.4478	1.300	H
ATOM	3383	HH22	ARG	196	49.380	39.374	35.654	0.4478	1.300	H
ATOM	3384	C	ARG	196	48.044	39.877	43.197	0.7341	1.700	C
ATOM	3385	O	ARG	196	49.229	40.189	43.158	-0.5894	1.500	O
ATOM	3386	N	GLU	197	47.212	40.378	44.097	-0.5163	1.550	N
ATOM	3387	H	GLU	197	46.231	40.142	44.077	0.2936	1.300	H
ATOM	3388	CA	GLU	197	47.703	41.271	45.125	0.0397	1.700	C
ATOM	3389	HA	GLU	197	48.554	41.854	44.768	0.1105	1.200	H
ATOM	3390	CB	GLU	197	46.614	42.238	45.559	0.0560	1.700	C
ATOM	3391	HB2	GLU	197	45.760	41.660	45.904	-0.0173	1.200	H
ATOM	3392	HB3	GLU	197	46.982	42.814	46.410	-0.0173	1.200	H
ATOM	3393	CG	GLU	197	46.186	43.213	44.487	0.0136	1.700	C
ATOM	3394	HG2	GLU	197	46.992	43.926	44.309	-0.0425	1.200	H
ATOM	3395	HG3	GLU	197	45.990	42.677	43.558	-0.0425	1.200	H
ATOM	3396	CD	GLU	197	44.916	43.959	44.868	0.8054	1.700	C
ATOM	3397	OE1	GLU	197	44.283	43.575	45.881	-0.8188	1.500	O
ATOM	3398	OE2	GLU	197	44.543	44.918	44.151	-0.8188	1.500	O
ATOM	3399	C	GLU	197	48.140	40.429	46.301	0.5366	1.700	C
ATOM	3400	O	GLU	197	49.230	40.616	46.826	-0.5819	1.500	O
ATOM	3401	N	LEU	198	47.274	39.507	46.719	-0.4157	1.550	N
ATOM	3402	H	LEU	198	46.382	39.416	46.253	0.2719	1.300	H
ATOM	3403	CA	LEU	198	47.574	38.619	47.837	-0.0518	1.700	C
ATOM	3404	HA	LEU	198	47.816	39.208	48.722	0.0922	1.200	H
ATOM	3405	CB	LEU	198	46.402	37.689	48.131	-0.1102	1.700	C
ATOM	3406	HB2	LEU	198	46.295	37.021	47.275	0.0457	1.200	H
ATOM	3407	HB3	LEU	198	46.684	37.071	48.986	0.0457	1.200	H
ATOM	3408	CG	LEU	198	45.025	38.269	48.389	0.3531	1.700	C
ATOM	3409	HG	LEU	198	44.673	38.796	47.506	-0.0361	1.200	H
ATOM	3410	CD1	LEU	198	44.053	37.154	48.720	-0.4121	1.700	C
ATOM	3411	HD11	LEU	198	43.071	37.580	48.921	0.1000	1.200	H
ATOM	3412	HD12	LEU	198	43.982	36.469	47.874	0.1000	1.200	H
ATOM	3413	HD13	LEU	198	44.389	36.606	49.602	0.1000	1.200	H
ATOM	3414	CD2	LEU	198	45.116	39.234	49.524	-0.4121	1.700	C
ATOM	3415	HD21	LEU	198	44.121	39.609	49.767	0.1000	1.200	H
ATOM	3416	HD22	LEU	198	45.538	38.751	50.407	0.1000	1.200	H
ATOM	3417	HD23	LEU	198	45.734	40.089	49.248	0.1000	1.200	H
ATOM	3418	C	LEU	198	48.768	37.755	47.470	0.5973	1.700	C
ATOM	3419	O	LEU	198	49.586	37.418	48.320	-0.5679	1.500	O
ATOM	3420	N	HIS	199	48.866	37.370	46.210	-0.4157	1.550	N
ATOM	3421	H	HIS	199	48.183	37.661	45.527	0.2719	1.300	H
ATOM	3422	CA	HIS	199	49.955	36.529	45.812	-0.0581	1.700	C
ATOM	3423	HA	HIS	199	50.781	36.566	46.522	0.1360	1.200	H
ATOM	3424	CB	HIS	199	49.494	35.084	45.756	-0.0074	1.700	C
ATOM	3425	HB2	HIS	199	48.689	34.999	45.026	0.0367	1.200	H
ATOM	3426	HB3	HIS	199	50.326	34.457	45.434	0.0367	1.200	H
ATOM	3427	CG	HIS	199	48.990	34.552	47.061	0.1868	1.700	C
ATOM	3428	ND1	HIS	199	49.643	34.033	48.127	-0.5432	1.550	N
ATOM	3429	CE1	HIS	199	48.688	33.684	49.055	0.1635	1.700	C
ATOM	3430	HE1	HIS	199	48.888	33.239	50.019	0.1435	1.200	H
ATOM	3431	NE2	HIS	199	47.493	33.979	48.579	-0.2795	1.550	N

ATOM	3432	HE2	HIS	199	46.618	33.830	49.060	0.3339	1.300	H
ATOM	3433	CD2	HIS	199	47.648	34.504	47.376	-0.2207	1.700	C
ATOM	3434	HD2	HIS	199	46.855	34.860	46.741	0.1862	1.200	H
ATOM	3435	C	HIS	199	50.480	36.939	44.469	0.5973	1.700	C
ATOM	3436	O	HIS	199	50.302	36.229	43.488	-0.5679	1.500	O
ATOM	3437	N	PRO	200	51.207	38.058	44.415	-0.2548	1.550	N
ATOM	3438	CD	PRO	200	51.603	38.906	45.549	0.0192	1.700	C
ATOM	3439	HD2	PRO	200	51.841	38.352	46.456	0.0391	1.200	H
ATOM	3440	HD3	PRO	200	50.845	39.648	45.703	0.0391	1.200	H
ATOM	3441	CG	PRO	200	52.831	39.592	45.001	0.0189	1.700	C
ATOM	3442	HG2	PRO	200	53.692	38.923	45.060	0.0213	1.200	H
ATOM	3443	HG3	PRO	200	53.038	40.519	45.537	0.0213	1.200	H
ATOM	3444	CB	PRO	200	52.474	39.853	43.596	-0.0070	1.700	C
ATOM	3445	HB2	PRO	200	53.356	40.064	42.989	0.0253	1.200	H
ATOM	3446	HB3	PRO	200	51.779	40.692	43.543	0.0253	1.200	H
ATOM	3447	CA	PRO	200	51.775	38.563	43.161	-0.0266	1.700	C
ATOM	3448	HA	PRO	200	50.993	38.778	42.436	0.0641	1.200	H
ATOM	3449	C	PRO	200	52.748	37.591	42.519	0.5896	1.700	C
ATOM	3450	O	PRO	200	52.998	37.649	41.311	-0.5748	1.500	O
ATOM	3451	N	GLU	201	53.287	36.688	43.330	-0.5163	1.550	N
ATOM	3452	H	GLU	201	53.040	36.671	44.311	0.2936	1.300	H
ATOM	3453	CA	GLU	201	54.237	35.703	42.836	0.0397	1.700	C
ATOM	3454	HA	GLU	201	55.093	36.244	42.430	0.1105	1.200	H
ATOM	3455	CB	GLU	201	54.748	34.828	43.983	0.0560	1.700	C
ATOM	3456	HB2	GLU	201	55.522	34.183	43.563	-0.0173	1.200	H
ATOM	3457	HB3	GLU	201	55.242	35.445	44.735	-0.0173	1.200	H
ATOM	3458	CG	GLU	201	53.694	33.920	44.616	0.0136	1.700	C
ATOM	3459	HG2	GLU	201	52.857	33.682	43.980	-0.0425	1.200	H
ATOM	3460	HG3	GLU	201	54.185	32.969	44.832	-0.0425	1.200	H
ATOM	3461	CD	GLU	201	53.152	34.447	45.929	0.8054	1.700	C
ATOM	3462	OE1	GLU	201	53.192	35.679	46.149	-0.8188	1.500	O
ATOM	3463	OE2	GLU	201	52.682	33.625	46.746	-0.8188	1.500	O
ATOM	3464	C	GLU	201	53.667	34.831	41.705	0.5366	1.700	C
ATOM	3465	O	GLU	201	54.368	34.547	40.738	-0.5819	1.500	O
ATOM	3466	N	TYR	202	52.389	34.462	41.796	-0.4157	1.550	N
ATOM	3467	H	TYR	202	51.837	34.750	42.592	0.2719	1.300	H
ATOM	3468	CA	TYR	202	51.773	33.619	40.776	-0.0014	1.700	C
ATOM	3469	HA	TYR	202	52.335	32.689	40.698	0.0876	1.200	H
ATOM	3470	CB	TYR	202	50.314	33.311	41.111	-0.0152	1.700	C
ATOM	3471	HB2	TYR	202	49.759	34.242	41.103	0.0295	1.200	H
ATOM	3472	HB3	TYR	202	49.899	32.660	40.341	0.0295	1.200	H
ATOM	3473	CG	TYR	202	50.099	32.654	42.447	-0.0011	1.700	C
ATOM	3474	CD1	TYR	202	51.054	31.809	42.986	-0.1906	1.700	C
ATOM	3475	HD1	TYR	202	51.963	31.590	42.449	0.1699	1.200	H
ATOM	3476	CE1	TYR	202	50.874	31.226	44.233	-0.2341	1.700	C
ATOM	3477	HE1	TYR	202	51.641	30.586	44.645	0.1656	1.200	H
ATOM	3478	CZ	TYR	202	49.733	31.486	44.948	0.3226	1.700	C
ATOM	3479	OH	TYR	202	49.609	30.950	46.199	-0.5579	1.500	O
ATOM	3480	HH	TYR	202	50.412	30.510	46.487	0.3992	1.200	H
ATOM	3481	CE2	TYR	202	48.762	32.311	44.438	-0.2341	1.700	C
ATOM	3482	HE2	TYR	202	47.881	32.538	45.020	0.1656	1.200	H
ATOM	3483	CD2	TYR	202	48.949	32.895	43.189	-0.1906	1.700	C
ATOM	3484	HD2	TYR	202	48.229	33.608	42.828	0.1699	1.200	H
ATOM	3485	C	TYR	202	51.786	34.268	39.414	0.5973	1.700	C
ATOM	3486	O	TYR	202	51.654	33.581	38.404	-0.5679	1.500	O
ATOM	3487	N	PHE	203	51.960	35.582	39.370	-0.3821	1.550	N
ATOM	3488	H	PHE	203	52.147	36.105	40.214	0.2681	1.300	H
ATOM	3489	CA	PHE	203	51.902	36.289	38.092	-0.1825	1.700	C
ATOM	3490	HA	PHE	203	51.616	35.596	37.302	0.1098	1.200	H
ATOM	3491	CB	PHE	203	50.777	37.332	38.148	-0.0959	1.700	C
ATOM	3492	HB2	PHE	203	51.099	38.153	38.790	0.0443	1.200	H
ATOM	3493	HB3	PHE	203	50.618	37.738	37.148	0.0443	1.200	H
ATOM	3494	CG	PHE	203	49.488	36.785	38.672	0.0552	1.700	C
ATOM	3495	CD1	PHE	203	49.268	36.690	40.034	-0.1300	1.700	C
ATOM	3496	HD1	PHE	203	50.025	37.030	40.727	0.1408	1.200	H
ATOM	3497	CE1	PHE	203	48.103	36.133	40.532	-0.1847	1.700	C
ATOM	3498	HE1	PHE	203	47.962	36.027	41.598	0.1461	1.200	H
ATOM	3499	CZ	PHE	203	47.137	35.666	39.663	-0.0944	1.700	C
ATOM	3500	HZ	PHE	203	46.236	35.221	40.052	0.1280	1.200	H
ATOM	3501	CE2	PHE	203	47.341	35.757	38.297	-0.1847	1.700	C
ATOM	3502	HE2	PHE	203	46.605	35.382	37.604	0.1461	1.200	H
ATOM	3503	CD2	PHE	203	48.515	36.316	37.806	-0.1300	1.700	C
ATOM	3504	HD2	PHE	203	48.681	36.352	36.739	0.1408	1.200	H
ATOM	3505	C	PHE	203	53.195	36.930	37.607	0.7660	1.700	C
ATOM	3506	O	PHE	203	53.267	37.415	36.464	-0.8026	1.500	O
ATOM	3507	OXT	PHE	203	54.163	37.027	38.358	-0.8026	1.500	O
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PDB co-ordinate of HIV-Nef generated at pH 9.0

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REMARK

ATOM	1	N	ARG	71	34.264	8.216	17.885	0.1305	1.550	N
ATOM	2	H1	ARG	71	34.435	7.843	16.961	0.2083	1.300	H
ATOM	3	H2	ARG	71	34.734	9.106	17.980	0.2083	1.300	H
ATOM	4	H3	ARG	71	33.270	8.346	18.014	0.2083	1.300	H
ATOM	5	CA	ARG	71	34.775	7.285	18.896	-0.0223	1.700	C
ATOM	6	HA	ARG	71	34.286	6.318	18.788	0.1242	1.200	H
ATOM	7	CB	ARG	71	36.286	7.074	18.738	0.0118	1.700	C
ATOM	8	HB2	ARG	71	36.480	6.720	17.724	0.0226	1.200	H
ATOM	9	HB3	ARG	71	36.794	8.034	18.847	0.0226	1.200	H
ATOM	10	CG	ARG	71	36.888	6.068	19.709	0.0236	1.700	C
ATOM	11	HG2	ARG	71	36.564	6.292	20.726	0.0309	1.200	H
ATOM	12	HG3	ARG	71	36.555	5.062	19.451	0.0309	1.200	H
ATOM	13	CD	ARG	71	38.401	6.135	19.671	0.0935	1.700	C
ATOM	14	HD2	ARG	71	38.733	5.850	18.673	0.0527	1.200	H
ATOM	15	HD3	ARG	71	38.705	7.171	19.823	0.0527	1.200	H
ATOM	16	NE	ARG	71	39.043	5.341	20.715	-0.5650	1.550	N
ATOM	17	HE	ARG	71	38.864	5.598	21.675	0.3592	1.300	H
ATOM	18	CZ	ARG	71	39.876	4.327	20.480	0.8281	1.700	C
ATOM	19	NH1	ARG	71	40.165	3.966	19.232	-0.8693	1.550	N
ATOM	20	HH11	ARG	71	40.796	3.198	19.060	0.4494	1.300	H
ATOM	21	HH12	ARG	71	39.750	4.454	18.454	0.4494	1.300	H
ATOM	22	NH2	ARG	71	40.482	3.712	21.492	-0.8693	1.550	N
ATOM	23	HH21	ARG	71	41.145	2.974	21.312	0.4494	1.300	H
ATOM	24	HH22	ARG	71	40.281	3.983	22.443	0.4494	1.300	H
ATOM	25	C	ARG	71	34.475	7.896	20.249	0.7214	1.700	C
ATOM	26	O	ARG	71	35.268	8.665	20.789	-0.6013	1.500	O
ATOM	27	N	PRO	72	33.332	7.531	20.826	-0.2548	1.550	N
ATOM	28	CD	PRO	72	32.547	6.388	20.351	0.0192	1.700	C
ATOM	29	HD2	PRO	72	33.008	5.452	20.670	0.0391	1.200	H
ATOM	30	HD3	PRO	72	32.384	6.401	19.273	0.0391	1.200	H
ATOM	31	CG	PRO	72	31.241	6.596	21.042	0.0189	1.700	C
ATOM	32	HG2	PRO	72	30.658	5.675	21.079	0.0213	1.200	H
ATOM	33	HG3	PRO	72	30.675	7.389	20.550	0.0213	1.200	H
ATOM	34	CB	PRO	72	31.660	7.027	22.386	-0.0070	1.700	C
ATOM	35	HB2	PRO	72	32.007	6.161	22.955	0.0253	1.200	H
ATOM	36	HB3	PRO	72	30.848	7.523	22.919	0.0253	1.200	H
ATOM	37	CA	PRO	72	32.823	7.992	22.115	-0.0266	1.700	C
ATOM	38	HA	PRO	72	32.437	9.006	22.000	0.0641	1.200	H
ATOM	39	C	PRO	72	33.827	7.941	23.257	0.5896	1.700	C
ATOM	40	O	PRO	72	34.847	7.249	23.203	-0.5748	1.500	O
ATOM	41	N	GLN	73	33.553	8.728	24.280	-0.4157	1.550	N
ATOM	42	H	GLN	73	32.701	9.268	24.309	0.2719	1.300	H
ATOM	43	CA	GLN	73	34.396	8.707	25.436	-0.0031	1.700	C
ATOM	44	HA	GLN	73	35.445	8.576	25.163	0.0850	1.200	H
ATOM	45	CB	GLN	73	34.219	9.983	26.261	-0.0036	1.700	C
ATOM	46	HB2	GLN	73	34.505	10.812	25.612	0.0171	1.200	H
ATOM	47	HB3	GLN	73	33.168	10.140	26.508	0.0171	1.200	H
ATOM	48	CG	GLN	73	35.100	10.083	27.499	-0.0645	1.700	C
ATOM	49	HG2	GLN	73	35.840	9.415	27.163	0.0352	1.200	H
ATOM	50	HG3	GLN	73	35.449	11.090	27.728	0.0352	1.200	H
ATOM	51	CD	GLN	73	34.502	9.358	28.679	0.6951	1.700	C
ATOM	52	OE1	GLN	73	33.277	9.271	28.804	-0.6086	1.500	O
ATOM	53	NE2	GLN	73	35.351	8.816	29.547	-0.9407	1.550	N
ATOM	54	HE21	GLN	73	34.982	8.192	30.249	0.4251	1.300	H
ATOM	55	HE22	GLN	73	36.344	8.968	29.478	0.4251	1.300	H
ATOM	56	C	GLN	73	33.842	7.480	26.147	0.5973	1.700	C
ATOM	57	O	GLN	73	32.634	7.368	26.380	-0.5679	1.500	O
ATOM	58	N	VAL	74	34.722	6.508	26.342	-0.4157	1.550	N
ATOM	59	H	VAL	74	35.682	6.672	26.071	0.2719	1.300	H
ATOM	60	CA	VAL	74	34.434	5.244	27.006	-0.0875	1.700	C
ATOM	61	HA	VAL	74	33.796	4.674	26.333	0.0969	1.200	H
ATOM	62	CB	VAL	74	35.766	4.511	27.204	0.2985	1.700	C
ATOM	63	HB	VAL	74	36.596	5.195	27.066	-0.0297	1.200	H
ATOM	64	CG1	VAL	74	35.919	3.994	28.578	-0.3192	1.700	C
ATOM	65	HG11	VAL	74	36.881	3.491	28.641	0.0791	1.200	H
ATOM	66	HG12	VAL	74	35.935	4.814	29.291	0.0791	1.200	H
ATOM	67	HG13	VAL	74	35.178	3.245	28.837	0.0791	1.200	H
ATOM	68	CG2	VAL	74	35.915	3.441	26.190	-0.3192	1.700	C
ATOM	69	HG21	VAL	74	36.850	2.903	26.336	0.0791	1.200	H

ATOM	70	HG22	VAL	74	35.092	2.729	26.271	0.0791	1.200	H
ATOM	71	HG23	VAL	74	35.915	3.878	25.191	0.0791	1.200	H
ATOM	72	C	VAL	74	33.700	5.459	28.327	0.5973	1.700	C
ATOM	73	O	VAL	74	33.778	6.530	28.931	-0.5679	1.500	O
ATOM	74	N	PRO	75	32.917	4.466	28.766	-0.2548	1.550	N
ATOM	75	CD	PRO	75	32.541	3.205	28.104	0.0192	1.700	C
ATOM	76	HD2	PRO	75	33.280	2.428	28.296	0.0391	1.200	H
ATOM	77	HD3	PRO	75	32.373	3.330	27.035	0.0391	1.200	H
ATOM	78	CG	PRO	75	31.249	2.860	28.783	0.0189	1.700	C
ATOM	79	HG2	PRO	75	31.038	1.792	28.721	0.0213	1.200	H
ATOM	80	HG3	PRO	75	30.432	3.436	28.344	0.0213	1.200	H
ATOM	81	CB	PRO	75	31.479	3.295	30.200	-0.0070	1.700	C
ATOM	82	HB2	PRO	75	32.125	2.573	30.703	0.0253	1.200	H
ATOM	83	HB3	PRO	75	30.540	3.407	30.744	0.0253	1.200	H
ATOM	84	CA	PRO	75	32.196	4.638	30.037	-0.0266	1.700	C
ATOM	85	HA	PRO	75	31.471	5.448	29.946	0.0641	1.200	H
ATOM	86	C	PRO	75	33.159	4.884	31.206	0.5896	1.700	C
ATOM	87	O	PRO	75	34.291	4.403	31.200	-0.5748	1.500	O
ATOM	88	N	LEU	76	32.736	5.651	32.198	-0.4157	1.550	N
ATOM	89	H	LEU	76	31.813	6.058	32.186	0.2719	1.300	H
ATOM	90	CA	LEU	76	33.609	5.875	33.341	-0.0518	1.700	C
ATOM	91	HA	LEU	76	34.586	6.205	32.992	0.0922	1.200	H
ATOM	92	CB	LEU	76	33.031	6.939	34.281	-0.1102	1.700	C
ATOM	93	HB2	LEU	76	33.172	7.896	33.776	0.0457	1.200	H
ATOM	94	HB3	LEU	76	31.953	6.793	34.375	0.0457	1.200	H
ATOM	95	CG	LEU	76	33.642	7.022	35.688	0.3531	1.700	C
ATOM	96	HG	LEU	76	34.715	6.837	35.621	-0.0361	1.200	H
ATOM	97	CD1	LEU	76	33.493	8.418	36.236	-0.4121	1.700	C
ATOM	98	HD11	LEU	76	33.944	8.477	37.228	0.1000	1.200	H
ATOM	99	HD12	LEU	76	34.003	9.128	35.585	0.1000	1.200	H
ATOM	100	HD13	LEU	76	32.437	8.686	36.301	0.1000	1.200	H
ATOM	101	CD2	LEU	76	33.005	5.992	36.644	-0.4121	1.700	C
ATOM	102	HD21	LEU	76	32.284	5.350	36.137	0.1000	1.200	H
ATOM	103	HD22	LEU	76	33.782	5.378	37.096	0.1000	1.200	H
ATOM	104	HD23	LEU	76	32.474	6.496	37.453	0.1000	1.200	H
ATOM	105	C	LEU	76	33.736	4.554	34.084	0.5973	1.700	C
ATOM	106	O	LEU	76	32.845	3.714	33.996	-0.5679	1.500	O
ATOM	107	N	ARG	77	34.845	4.366	34.794	-0.3479	1.550	N
ATOM	108	H	ARG	77	35.558	5.081	34.802	0.2747	1.300	H
ATOM	109	CA	ARG	77	35.068	3.170	35.596	-0.2637	1.700	C
ATOM	110	HA	ARG	77	34.117	2.946	36.073	0.1560	1.200	H
ATOM	111	CB	ARG	77	35.475	1.957	34.764	-0.0007	1.700	C
ATOM	112	HB2	ARG	77	35.658	1.131	35.454	0.0327	1.200	H
ATOM	113	HB3	ARG	77	34.624	1.675	34.141	0.0327	1.200	H
ATOM	114	CG	ARG	77	36.658	2.121	33.894	0.0390	1.700	C
ATOM	115	HG2	ARG	77	36.446	2.866	33.125	0.0285	1.200	H
ATOM	116	HG3	ARG	77	37.526	2.431	34.469	0.0285	1.200	H
ATOM	117	CD	ARG	77	36.946	0.799	33.248	0.0486	1.700	C
ATOM	118	HD2	ARG	77	37.274	0.097	34.017	0.0687	1.200	H
ATOM	119	HD3	ARG	77	36.034	0.420	32.782	0.0687	1.200	H
ATOM	120	NE	ARG	77	37.967	0.912	32.222	-0.5295	1.550	N
ATOM	121	HE	ARG	77	38.278	1.839	31.988	0.3456	1.300	H
ATOM	122	CZ	ARG	77	38.522	-0.124	31.611	0.8076	1.700	C
ATOM	123	NH1	ARG	77	38.156	-1.349	31.951	-0.8627	1.550	N
ATOM	124	HH11	ARG	77	37.425	-1.479	32.634	0.4478	1.300	H
ATOM	125	HH12	ARG	77	38.624	-2.148	31.555	0.4478	1.300	H
ATOM	126	NH2	ARG	77	39.399	0.062	30.625	-0.8627	1.550	N
ATOM	127	HH21	ARG	77	39.628	0.999	30.327	0.4478	1.300	H
ATOM	128	HH22	ARG	77	39.805	-0.724	30.142	0.4478	1.300	H
ATOM	129	C	ARG	77	36.117	3.520	36.611	0.7341	1.700	C
ATOM	130	O	ARG	77	37.108	4.165	36.281	-0.5894	1.500	O
ATOM	131	N	PRO	78	35.871	3.165	37.884	-0.2548	1.550	N
ATOM	132	CD	PRO	78	34.751	2.310	38.314	0.0192	1.700	C
ATOM	133	HD2	PRO	78	34.511	1.532	37.589	0.0391	1.200	H
ATOM	134	HD3	PRO	78	33.875	2.919	38.540	0.0391	1.200	H
ATOM	135	CG	PRO	78	35.297	1.666	39.568	0.0189	1.700	C
ATOM	136	HG2	PRO	78	35.995	0.865	39.317	0.0213	1.200	H
ATOM	137	HG3	PRO	78	34.496	1.292	40.206	0.0213	1.200	H
ATOM	138	CB	PRO	78	36.012	2.811	40.199	-0.0070	1.700	C
ATOM	139	HB2	PRO	78	36.689	2.476	40.987	0.0253	1.200	H
ATOM	140	HB3	PRO	78	35.292	3.528	40.599	0.0253	1.200	H
ATOM	141	CA	PRO	78	36.767	3.430	39.014	-0.0266	1.700	C
ATOM	142	HA	PRO	78	36.825	4.509	39.167	0.0641	1.200	H
ATOM	143	C	PRO	78	38.187	2.880	38.889	0.5896	1.700	C
ATOM	144	O	PRO	78	38.435	1.850	38.253	-0.5748	1.500	O
ATOM	145	N	MET	79	39.118	3.619	39.468	-0.4157	1.550	N
ATOM	146	H	MET	79	38.853	4.457	39.964	0.2719	1.300	H

ATOM	147	CA	MET	79	40.520	3.241	39.484	-0.0237	1.700	C
ATOM	148	HA	MET	79	40.799	2.823	38.516	0.0880	1.200	H
ATOM	149	CB	MET	79	41.367	4.476	39.832	0.0342	1.700	C
ATOM	150	HB2	MET	79	41.179	5.245	39.082	0.0241	1.200	H
ATOM	151	HB3	MET	79	41.028	4.876	40.789	0.0241	1.200	H
ATOM	152	CG	MET	79	42.844	4.247	39.932	0.0018	1.700	C
ATOM	153	HG2	MET	79	43.367	5.191	40.083	0.0440	1.200	H
ATOM	154	HG3	MET	79	43.060	3.575	40.763	0.0440	1.200	H
ATOM	155	SD	MET	79	43.341	3.512	38.455	-0.2737	1.800	S
ATOM	156	CE	MET	79	43.517	4.874	37.383	-0.0536	1.700	C
ATOM	157	HE1	MET	79	43.722	4.516	36.375	0.0684	1.200	H
ATOM	158	HE2	MET	79	42.607	5.471	37.373	0.0684	1.200	H
ATOM	159	HE3	MET	79	44.353	5.480	37.724	0.0684	1.200	H
ATOM	160	C	MET	79	40.640	2.192	40.590	0.5973	1.700	C
ATOM	161	O	MET	79	39.912	2.223	41.581	-0.5679	1.500	O
ATOM	162	N	THR	80	41.526	1.238	40.417	-0.4157	1.550	N
ATOM	163	H	THR	80	42.130	1.235	39.608	0.2719	1.300	H
ATOM	164	CA	THR	80	41.703	0.217	41.433	-0.0389	1.700	C
ATOM	165	HA	THR	80	41.502	0.596	42.436	0.1007	1.200	H
ATOM	166	CB	THR	80	40.831	-1.009	41.131	0.3654	1.700	C
ATOM	167	HB	THR	80	41.136	-1.837	41.771	0.0043	1.200	H
ATOM	168	CG2	THR	80	39.387	-0.698	41.388	-0.2438	1.700	C
ATOM	169	HG21	THR	80	38.813	-1.624	41.344	0.0642	1.200	H
ATOM	170	HG22	THR	80	39.263	-0.268	42.382	0.0642	1.200	H
ATOM	171	HG23	THR	80	38.989	-0.018	40.634	0.0642	1.200	H
ATOM	172	OG1	THR	80	40.981	-1.382	39.750	-0.6761	1.500	O
ATOM	173	HG1	THR	80	40.586	-0.690	39.213	0.4102	1.200	H
ATOM	174	C	THR	80	43.158	-0.165	41.332	0.5973	1.700	C
ATOM	175	O	THR	80	43.786	0.094	40.293	-0.5679	1.500	O
ATOM	176	N	TYR	81	43.702	-0.755	42.393	-0.4157	1.550	N
ATOM	177	H	TYR	81	43.147	-0.919	43.220	0.2719	1.300	H
ATOM	178	CA	TYR	81	45.097	-1.188	42.402	-0.0014	1.700	C
ATOM	179	HA	TYR	81	45.754	-0.325	42.510	0.0876	1.200	H
ATOM	180	CB	TYR	81	45.318	-2.156	43.561	-0.0152	1.700	C
ATOM	181	HB2	TYR	81	45.189	-1.607	44.495	0.0295	1.200	H
ATOM	182	HB3	TYR	81	44.550	-2.932	43.538	0.0295	1.200	H
ATOM	183	CG	TYR	81	46.674	-2.814	43.585	-0.0011	1.700	C
ATOM	184	CD1	TYR	81	47.802	-2.133	44.032	-0.1906	1.700	C
ATOM	185	HD1	TYR	81	47.710	-1.117	44.387	0.1699	1.200	H
ATOM	186	CE1	TYR	81	49.057	-2.732	43.996	-0.2341	1.700	C
ATOM	187	HE1	TYR	81	49.922	-2.184	44.336	0.1656	1.200	H
ATOM	188	CZ	TYR	81	49.177	-4.017	43.510	0.3226	1.700	C
ATOM	189	OH	TYR	81	50.393	-4.636	43.409	-0.5579	1.500	O
ATOM	190	HH	TYR	81	51.106	-4.113	43.791	0.3992	1.200	H
ATOM	191	CE2	TYR	81	48.072	-4.704	43.074	-0.2341	1.700	C
ATOM	192	HE2	TYR	81	48.178	-5.710	42.692	0.1656	1.200	H
ATOM	193	CD2	TYR	81	46.834	-4.111	43.115	-0.1906	1.700	C
ATOM	194	HD2	TYR	81	45.979	-4.662	42.752	0.1699	1.200	H
ATOM	195	C	TYR	81	45.374	-1.871	41.076	0.5973	1.700	C
ATOM	196	O	TYR	81	46.214	-1.430	40.282	-0.5679	1.500	O
ATOM	197	N	LYS	82	44.551	-2.856	40.764	-0.3479	1.550	N
ATOM	198	H	LYS	82	43.843	-3.155	41.417	0.2747	1.300	H
ATOM	199	CA	LYS	82	44.727	-3.573	39.532	-0.2400	1.700	C
ATOM	200	HA	LYS	82	45.705	-4.058	39.572	0.1426	1.200	H
ATOM	201	CB	LYS	82	43.679	-4.659	39.389	-0.0094	1.700	C
ATOM	202	HB2	LYS	82	43.675	-5.289	40.280	0.0362	1.200	H
ATOM	203	HB3	LYS	82	42.700	-4.184	39.299	0.0362	1.200	H
ATOM	204	CG	LYS	82	43.944	-5.522	38.184	0.0187	1.700	C
ATOM	205	HG2	LYS	82	44.236	-4.912	37.336	0.0103	1.200	H
ATOM	206	HG3	LYS	82	44.763	-6.210	38.399	0.0103	1.200	H
ATOM	207	CD	LYS	82	42.720	-6.303	37.736	-0.0479	1.700	C
ATOM	208	HD2	LYS	82	42.511	-7.114	38.435	0.0621	1.200	H
ATOM	209	HD3	LYS	82	41.867	-5.623	37.717	0.0621	1.200	H
ATOM	210	CE	LYS	82	42.931	-6.855	36.336	-0.0143	1.700	C
ATOM	211	HE2	LYS	82	43.450	-6.114	35.746	0.1135	1.200	H
ATOM	212	HE3	LYS	82	43.529	-7.767	36.372	0.1135	1.200	H
ATOM	213	NZ	LYS	82	41.613	-7.103	35.701	-0.3854	1.550	N
ATOM	214	HZ1	LYS	82	41.050	-6.267	35.758	0.3400	1.300	H
ATOM	215	HZ2	LYS	82	41.755	-7.340	34.728	0.3400	1.300	H
ATOM	216	HZ3	LYS	82	41.144	-7.865	36.170	0.3400	1.300	H
ATOM	217	C	LYS	82	44.722	-2.671	38.312	0.7341	1.700	C
ATOM	218	O	LYS	82	45.554	-2.822	37.421	-0.5894	1.500	O
ATOM	219	N	ALA	83	43.802	-1.724	38.238	-0.4157	1.550	N
ATOM	220	H	ALA	83	43.141	-1.578	38.987	0.2719	1.300	H
ATOM	221	CA	ALA	83	43.781	-0.854	37.059	0.0337	1.700	C
ATOM	222	HA	ALA	83	43.771	-1.486	36.169	0.0823	1.200	H
ATOM	223	CB	ALA	83	42.515	0.001	37.014	-0.1825	1.700	C

ATOM	224	HB1	ALA	83	42.572	0.669	36.157	0.0603	1.200	H
ATOM	225	HB2	ALA	83	41.636	-0.638	36.926	0.0603	1.200	H
ATOM	226	HB3	ALA	83	42.440	0.604	37.916	0.0603	1.200	H
ATOM	227	C	ALA	83	45.027	0.019	36.990	0.5973	1.700	C
ATOM	228	O	ALA	83	45.526	0.276	35.896	-0.5679	1.500	O
ATOM	229	N	ALA	84	45.550	0.456	38.137	-0.4157	1.550	N
ATOM	230	H	ALA	84	45.140	0.199	39.023	0.2719	1.300	H
ATOM	231	CA	ALA	84	46.746	1.294	38.127	0.0337	1.700	C
ATOM	232	HA	ALA	84	46.603	2.115	37.422	0.0823	1.200	H
ATOM	233	CB	ALA	84	47.015	1.880	39.491	-0.1825	1.700	C
ATOM	234	HB1	ALA	84	47.884	2.530	39.437	0.0603	1.200	H
ATOM	235	HB2	ALA	84	46.158	2.478	39.801	0.0603	1.200	H
ATOM	236	HB3	ALA	84	47.164	1.089	40.219	0.0603	1.200	H
ATOM	237	C	ALA	84	47.914	0.445	37.664	0.5973	1.700	C
ATOM	238	O	ALA	84	48.686	0.872	36.793	-0.5679	1.500	O
ATOM	239	N	VAL	85	48.024	-0.774	38.204	-0.4157	1.550	N
ATOM	240	H	VAL	85	47.357	-1.082	38.894	0.2719	1.300	H
ATOM	241	CA	VAL	85	49.091	-1.708	37.790	-0.0875	1.700	C
ATOM	242	HA	VAL	85	50.049	-1.206	37.930	0.0969	1.200	H
ATOM	243	CB	VAL	85	49.111	-3.018	38.622	0.2985	1.700	C
ATOM	244	HB	VAL	85	48.143	-3.517	38.551	-0.0297	1.200	H
ATOM	245	CG1	VAL	85	50.177	-3.932	38.097	-0.3192	1.700	C
ATOM	246	HG11	VAL	85	50.291	-4.788	38.762	0.0791	1.200	H
ATOM	247	HG12	VAL	85	49.904	-4.322	37.116	0.0791	1.200	H
ATOM	248	HG13	VAL	85	51.131	-3.406	38.033	0.0791	1.200	H
ATOM	249	CG2	VAL	85	49.400	-2.713	40.063	-0.3192	1.700	C
ATOM	250	HG21	VAL	85	49.413	-3.639	40.638	0.0791	1.200	H
ATOM	251	HG22	VAL	85	50.372	-2.226	40.156	0.0791	1.200	H
ATOM	252	HG23	VAL	85	48.637	-2.064	40.485	0.0791	1.200	H
ATOM	253	C	VAL	85	48.968	-2.050	36.301	0.5973	1.700	C
ATOM	254	O	VAL	85	49.970	-2.095	35.577	-0.5679	1.500	O
ATOM	255	N	ASP	86	47.749	-2.260	35.827	-0.5163	1.550	N
ATOM	256	H	ASP	86	46.943	-2.214	36.429	0.2936	1.300	H
ATOM	257	CA	ASP	86	47.571	-2.555	34.429	0.0381	1.700	C
ATOM	258	HA	ASP	86	48.243	-3.372	34.158	0.0880	1.200	H
ATOM	259	CB	ASP	86	46.146	-3.013	34.159	-0.0303	1.700	C
ATOM	260	HB2	ASP	86	45.440	-2.298	34.585	-0.0122	1.200	H
ATOM	261	HB3	ASP	86	45.987	-3.044	33.080	-0.0122	1.200	H
ATOM	262	CG	ASP	86	45.865	-4.406	34.709	0.7994	1.700	C
ATOM	263	OD1	ASP	86	46.821	-5.094	35.122	-0.8014	1.500	O
ATOM	264	OD2	ASP	86	44.687	-4.832	34.721	-0.8014	1.500	O
ATOM	265	C	ASP	86	47.956	-1.375	33.546	0.5366	1.700	C
ATOM	266	O	ASP	86	48.619	-1.567	32.532	-0.5819	1.500	O
ATOM	267	N	LEU	87	47.577	-0.155	33.921	-0.4157	1.550	N
ATOM	268	H	LEU	87	47.050	-0.025	34.772	0.2719	1.300	H
ATOM	269	CA	LEU	87	47.928	1.014	33.120	-0.0518	1.700	C
ATOM	270	HA	LEU	87	47.546	0.872	32.110	0.0922	1.200	H
ATOM	271	CB	LEU	87	47.331	2.300	33.691	-0.1102	1.700	C
ATOM	272	HB2	LEU	87	47.467	2.259	34.773	0.0457	1.200	H
ATOM	273	HB3	LEU	87	47.971	3.117	33.350	0.0457	1.200	H
ATOM	274	CG	LEU	87	45.901	2.781	33.425	0.3531	1.700	C
ATOM	275	HG	LEU	87	45.197	2.022	33.769	-0.0361	1.200	H
ATOM	276	CD1	LEU	87	45.671	4.062	34.218	-0.4121	1.700	C
ATOM	277	HD11	LEU	87	44.644	4.399	34.077	0.1000	1.200	H
ATOM	278	HD12	LEU	87	45.832	3.878	35.281	0.1000	1.200	H
ATOM	279	HD13	LEU	87	46.352	4.845	33.883	0.1000	1.200	H
ATOM	280	CD2	LEU	87	45.677	3.022	31.935	-0.4121	1.700	C
ATOM	281	HD21	LEU	87	44.663	3.387	31.773	0.1000	1.200	H
ATOM	282	HD22	LEU	87	46.388	3.759	31.560	0.1000	1.200	H
ATOM	283	HD23	LEU	87	45.798	2.091	31.382	0.1000	1.200	H
ATOM	284	C	LEU	87	49.433	1.193	33.036	0.5973	1.700	C
ATOM	285	O	LEU	87	49.952	1.571	31.985	-0.5679	1.500	O
ATOM	286	N	SER	88	50.133	0.951	34.147	-0.4157	1.550	N
ATOM	287	H	SER	88	49.654	0.645	34.982	0.2719	1.300	H
ATOM	288	CA	SER	88	51.587	1.096	34.187	-0.0249	1.700	C
ATOM	289	HA	SER	88	51.841	2.140	33.998	0.0843	1.200	H
ATOM	290	CB	SER	88	52.129	0.703	35.555	0.2117	1.700	C
ATOM	291	HB2	SER	88	51.942	-0.352	35.754	0.0352	1.200	H
ATOM	292	HB3	SER	88	53.197	0.886	35.567	0.0352	1.200	H
ATOM	293	OG	SER	88	51.550	1.485	36.587	-0.6546	1.500	O
ATOM	294	HG	SER	88	50.623	1.233	36.671	0.4275	1.200	H
ATOM	295	C	SER	88	52.247	0.236	33.133	0.5973	1.700	C
ATOM	296	O	SER	88	53.043	0.714	32.337	-0.5679	1.500	O
ATOM	297	N	HIS	89	51.893	-1.041	33.105	-0.4157	1.550	N
ATOM	298	H	HIS	89	51.214	-1.404	33.761	0.2719	1.300	H
ATOM	299	CA	HIS	89	52.499	-1.951	32.144	0.0188	1.700	C
ATOM	300	HA	HIS	89	53.578	-1.795	32.156	0.0881	1.200	H

ATOM	301	CB	HIS	89	52.245	-3.418	32.540	-0.0462	1.700	C
ATOM	302	HB2	HIS	89	51.169	-3.591	32.594	0.0402	1.200	H
ATOM	303	HB3	HIS	89	52.649	-4.065	31.760	0.0402	1.200	H
ATOM	304	CG	HIS	89	52.881	-3.811	33.846	-0.0266	1.700	C
ATOM	305	ND1	HIS	89	52.168	-4.364	34.888	-0.3811	1.550	N
ATOM	306	HD1	HIS	89	51.179	-4.570	34.871	0.3649	1.300	H
ATOM	307	CE1	HIS	89	52.971	-4.550	35.922	0.2057	1.700	C
ATOM	308	HE1	HIS	89	52.687	-4.967	36.877	0.1392	1.200	H
ATOM	309	NE2	HIS	89	54.183	-4.143	35.588	-0.5727	1.550	N
ATOM	310	CD2	HIS	89	54.156	-3.681	34.293	0.1292	1.700	C
ATOM	311	HD2	HIS	89	54.987	-3.264	33.743	0.1147	1.200	H
ATOM	312	C	HIS	89	52.016	-1.644	30.744	0.5973	1.700	C
ATOM	313	O	HIS	89	52.742	-1.826	29.773	-0.5679	1.500	O
ATOM	314	N	PHE	90	50.804	-1.129	30.639	-0.4157	1.550	N
ATOM	315	H	PHE	90	50.233	-1.001	31.463	0.2719	1.300	H
ATOM	316	CA	PHE	90	50.251	-0.785	29.338	-0.0024	1.700	C
ATOM	317	HA	PHE	90	50.300	-1.653	28.680	0.0978	1.200	H
ATOM	318	CB	PHE	90	48.788	-0.374	29.498	-0.0343	1.700	C
ATOM	319	HB2	PHE	90	48.213	-1.251	29.798	0.0295	1.200	H
ATOM	320	HB3	PHE	90	48.692	0.358	30.291	0.0295	1.200	H
ATOM	321	CG	PHE	90	48.177	0.196	28.262	0.0118	1.700	C
ATOM	322	CD1	PHE	90	47.789	-0.628	27.225	-0.1256	1.700	C
ATOM	323	HD1	PHE	90	47.933	-1.698	27.303	0.1330	1.200	H
ATOM	324	CE1	PHE	90	47.214	-0.096	26.080	-0.1704	1.700	C
ATOM	325	HE1	PHE	90	46.928	-0.750	25.268	0.1430	1.200	H
ATOM	326	CZ	PHE	90	47.027	1.275	25.972	-0.1072	1.700	C
ATOM	327	HZ	PHE	90	46.568	1.688	25.085	0.1297	1.200	H
ATOM	328	CE2	PHE	90	47.412	2.106	27.006	-0.1704	1.700	C
ATOM	329	HE2	PHE	90	47.270	3.167	26.967	0.1430	1.200	H
ATOM	330	CD2	PHE	90	47.982	1.567	28.141	-0.1256	1.700	C
ATOM	331	HD2	PHE	90	48.270	2.223	28.948	0.1330	1.200	H
ATOM	332	C	PHE	90	51.073	0.344	28.731	0.5973	1.700	C
ATOM	333	O	PHE	90	51.577	0.221	27.620	-0.5679	1.500	O
ATOM	334	N	LEU	91	51.240	1.426	29.486	-0.4157	1.550	N
ATOM	335	H	LEU	91	50.822	1.454	30.403	0.2719	1.300	H
ATOM	336	CA	LEU	91	52.002	2.591	29.040	-0.0518	1.700	C
ATOM	337	HA	LEU	91	51.637	2.887	28.057	0.0922	1.200	H
ATOM	338	CB	LEU	91	51.807	3.761	30.016	-0.1102	1.700	C
ATOM	339	HB2	LEU	91	52.076	3.406	31.013	0.0457	1.200	H
ATOM	340	HB3	LEU	91	52.513	4.554	29.761	0.0457	1.200	H
ATOM	341	CG	LEU	91	50.397	4.362	30.068	0.3531	1.700	C
ATOM	342	HG	LEU	91	49.668	3.563	30.195	-0.0361	1.200	H
ATOM	343	CD1	LEU	91	50.259	5.278	31.251	-0.4121	1.700	C
ATOM	344	HD11	LEU	91	49.242	5.663	31.306	0.1000	1.200	H
ATOM	345	HD12	LEU	91	50.452	4.691	32.146	0.1000	1.200	H
ATOM	346	HD13	LEU	91	50.957	6.105	31.170	0.1000	1.200	H
ATOM	347	CD2	LEU	91	50.092	5.085	28.758	-0.4121	1.700	C
ATOM	348	HD21	LEU	91	49.167	5.656	28.859	0.1000	1.200	H
ATOM	349	HD22	LEU	91	50.904	5.769	28.501	0.1000	1.200	H
ATOM	350	HD23	LEU	91	49.961	4.359	27.954	0.1000	1.200	H
ATOM	351	C	LEU	91	53.476	2.261	28.887	0.5973	1.700	C
ATOM	352	O	LEU	91	54.207	2.948	28.177	-0.5679	1.500	O
ATOM	353	N	LYS	92	53.932	1.232	29.585	-0.3479	1.550	N
ATOM	354	H	LYS	92	53.315	0.711	30.193	0.2747	1.300	H
ATOM	355	CA	LYS	92	55.321	0.827	29.463	-0.2400	1.700	C
ATOM	356	HA	LYS	92	55.957	1.713	29.479	0.1426	1.200	H
ATOM	357	CB	LYS	92	55.717	-0.093	30.634	-0.0094	1.700	C
ATOM	358	HB2	LYS	92	55.187	0.206	31.529	0.0362	1.200	H
ATOM	359	HB3	LYS	92	55.436	-1.120	30.398	0.0362	1.200	H
ATOM	360	CG	LYS	92	57.203	-0.021	31.013	0.0187	1.700	C
ATOM	361	HG2	LYS	92	57.778	-0.165	30.096	0.0103	1.200	H
ATOM	362	HG3	LYS	92	57.439	0.967	31.413	0.0103	1.200	H
ATOM	363	CD	LYS	92	57.611	-1.098	32.019	-0.0479	1.700	C
ATOM	364	HD2	LYS	92	57.471	-0.727	33.028	0.0621	1.200	H
ATOM	365	HD3	LYS	92	56.985	-1.982	31.888	0.0621	1.200	H
ATOM	366	CE	LYS	92	59.076	-1.536	31.827	-0.0143	1.700	C
ATOM	367	HE2	LYS	92	59.300	-2.317	32.555	0.1135	1.200	H
ATOM	368	HE3	LYS	92	59.189	-1.956	30.826	0.1135	1.200	H
ATOM	369	NZ	LYS	92	60.049	-0.418	32.000	-0.3854	1.550	N
ATOM	370	HZ1	LYS	92	59.922	0.001	32.911	0.3400	1.300	H
ATOM	371	HZ2	LYS	92	60.994	-0.765	31.914	0.3400	1.300	H
ATOM	372	HZ3	LYS	92	59.888	0.289	31.295	0.3400	1.300	H
ATOM	373	C	LYS	92	55.449	0.125	28.096	0.7341	1.700	C
ATOM	374	O	LYS	92	56.385	0.378	27.345	-0.5894	1.500	O
ATOM	375	N	GLU	93	54.466	-0.711	27.760	-0.5163	1.550	N
ATOM	376	H	GLU	93	53.701	-0.867	28.402	0.2936	1.300	H
ATOM	377	CA	GLU	93	54.450	-1.420	26.480	0.0397	1.700	C

ATOM	378	HA	GLU	93	55.304	-2.095	26.412	0.1105	1.200	H
ATOM	379	CB	GLU	93	53.139	-2.213	26.292	0.0560	1.700	C
ATOM	380	HB2	GLU	93	52.283	-1.555	26.323	-0.0173	1.200	H
ATOM	381	HB3	GLU	93	53.149	-2.630	25.284	-0.0173	1.200	H
ATOM	382	CG	GLU	93	52.915	-3.387	27.270	0.0136	1.700	C
ATOM	383	HG2	GLU	93	53.443	-4.236	26.832	-0.0425	1.200	H
ATOM	384	HG3	GLU	93	53.422	-3.267	28.214	-0.0425	1.200	H
ATOM	385	CD	GLU	93	51.429	-3.834	27.400	0.8054	1.700	C
ATOM	386	OE1	GLU	93	50.630	-3.635	26.446	-0.8188	1.500	O
ATOM	387	OE2	GLU	93	51.061	-4.392	28.467	-0.8188	1.500	O
ATOM	388	C	GLU	93	54.556	-0.338	25.405	0.5366	1.700	C
ATOM	389	O	GLU	93	55.489	-0.337	24.608	-0.5819	1.500	O
ATOM	390	N	LYS	94	53.612	0.602	25.409	-0.3479	1.550	N
ATOM	391	H	LYS	94	52.872	0.553	26.096	0.2747	1.300	H
ATOM	392	CA	LYS	94	53.605	1.710	24.455	-0.2400	1.700	C
ATOM	393	HA	LYS	94	53.877	1.361	23.458	0.1426	1.200	H
ATOM	394	CB	LYS	94	52.225	2.369	24.435	-0.0094	1.700	C
ATOM	395	HB2	LYS	94	51.495	1.658	24.044	0.0362	1.200	H
ATOM	396	HB3	LYS	94	51.933	2.650	25.450	0.0362	1.200	H
ATOM	397	CG	LYS	94	52.266	3.608	23.548	0.0187	1.700	C
ATOM	398	HG2	LYS	94	52.916	4.452	23.713	0.0103	1.200	H
ATOM	399	HG3	LYS	94	52.487	3.270	22.534	0.0103	1.200	H
ATOM	400	CD	LYS	94	50.890	4.266	23.528	-0.0479	1.700	C
ATOM	401	HD2	LYS	94	50.151	3.560	23.144	0.0621	1.200	H
ATOM	402	HD3	LYS	94	50.616	4.560	24.543	0.0621	1.200	H
ATOM	403	CE	LYS	94	50.932	5.505	22.640	-0.0143	1.700	C
ATOM	404	HE2	LYS	94	51.672	6.207	23.028	0.1135	1.200	H
ATOM	405	HE3	LYS	94	51.216	5.211	21.628	0.1135	1.200	H
ATOM	406	NZ	LYS	94	49.605	6.138	22.621	-0.3854	1.550	N
ATOM	407	HZ1	LYS	94	49.618	6.931	21.994	0.3400	1.300	H
ATOM	408	HZ2	LYS	94	48.916	5.470	22.305	0.3400	1.300	H
ATOM	409	HZ3	LYS	94	49.361	6.449	23.552	0.3400	1.300	H
ATOM	410	C	LYS	94	54.634	2.708	24.958	0.7341	1.700	C
ATOM	411	O	LYS	94	54.299	3.869	25.203	-0.5894	1.500	O
ATOM	412	N	GLY	95	55.870	2.234	25.144	-0.4157	1.550	N
ATOM	413	H	GLY	95	56.075	1.273	24.932	0.2719	1.300	H
ATOM	414	CA	GLY	95	56.962	3.044	25.661	-0.0252	1.700	C
ATOM	415	HA2	GLY	95	56.933	2.982	26.750	0.0698	1.200	H
ATOM	416	HA3	GLY	95	57.905	2.607	25.333	0.0698	1.200	H
ATOM	417	C	GLY	95	56.946	4.499	25.256	0.5973	1.700	C
ATOM	418	O	GLY	95	56.684	4.812	24.094	-0.5679	1.500	O
ATOM	419	N	GLY	96	57.208	5.389	26.209	-0.4157	1.550	N
ATOM	420	H	GLY	96	57.422	5.082	27.146	0.2719	1.300	H
ATOM	421	CA	GLY	96	57.210	6.809	25.906	-0.0252	1.700	C
ATOM	422	HA2	GLY	96	58.026	7.020	25.214	0.0698	1.200	H
ATOM	423	HA3	GLY	96	56.268	7.060	25.416	0.0698	1.200	H
ATOM	424	C	GLY	96	57.355	7.708	27.118	0.5973	1.700	C
ATOM	425	O	GLY	96	57.900	8.796	27.005	-0.5679	1.500	O
ATOM	426	N	LEU	97	56.855	7.275	28.272	-0.4157	1.550	N
ATOM	427	H	LEU	97	56.386	6.382	28.317	0.2719	1.300	H
ATOM	428	CA	LEU	97	56.952	8.075	29.488	-0.0518	1.700	C
ATOM	429	HA	LEU	97	56.766	9.121	29.253	0.0922	1.200	H
ATOM	430	CB	LEU	97	55.965	7.589	30.544	-0.1102	1.700	C
ATOM	431	HB2	LEU	97	56.084	6.508	30.637	0.0457	1.200	H
ATOM	432	HB3	LEU	97	56.272	8.011	31.500	0.0457	1.200	H
ATOM	433	CG	LEU	97	54.490	7.890	30.400	0.3531	1.700	C
ATOM	434	HG	LEU	97	54.106	7.419	29.494	-0.0361	1.200	H
ATOM	435	CD1	LEU	97	53.758	7.350	31.599	-0.4121	1.700	C
ATOM	436	HD11	LEU	97	52.691	7.448	31.460	0.1000	1.200	H
ATOM	437	HD12	LEU	97	53.977	6.289	31.722	-0.1000	1.200	H
ATOM	438	HD13	LEU	97	54.056	7.879	32.506	0.1000	1.200	H
ATOM	439	CD2	LEU	97	54.306	9.380	30.317	-0.4121	1.700	C
ATOM	440	HD21	LEU	97	53.254	9.605	30.183	0.1000	1.200	H
ATOM	441	HD22	LEU	97	54.661	9.851	31.220	0.1000	1.200	H
ATOM	442	HD23	LEU	97	54.813	9.789	29.448	0.1000	1.200	H
ATOM	443	C	LEU	97	58.324	8.003	30.107	0.5973	1.700	C
ATOM	444	O	LEU	97	58.735	8.899	30.841	-0.5679	1.500	O
ATOM	445	N	GLU	98	59.017	6.907	29.847	-0.5163	1.550	N
ATOM	446	H	GLU	98	58.637	6.198	29.240	0.2936	1.300	H
ATOM	447	CA	GLU	98	60.327	6.691	30.435	0.0397	1.700	C
ATOM	448	HA	GLU	98	60.143	6.602	31.505	0.1105	1.200	H
ATOM	449	CB	GLU	98	60.955	5.413	29.906	0.0560	1.700	C
ATOM	450	HB2	GLU	98	60.166	4.701	29.653	-0.0173	1.200	H
ATOM	451	HB3	GLU	98	61.514	5.604	28.989	-0.0173	1.200	H
ATOM	452	CG	GLU	98	61.855	4.770	30.922	0.0136	1.700	C
ATOM	453	HG2	GLU	98	62.240	3.833	30.516	-0.0425	1.200	H
ATOM	454	HG3	GLU	98	62.702	5.429	31.125	-0.0425	1.200	H

ATOM	455	CD	GLU	98	61.105	4.487	32.185	0.8054	1.700	C
ATOM	456	OE1	GLU	98	60.016	3.856	32.104	-0.8188	1.500	O
ATOM	457	OE2	GLU	98	61.592	4.930	33.244	-0.8188	1.500	O
ATOM	458	C	GLU	98	61.277	7.832	30.223	0.5366	1.700	C
ATOM	459	O	GLU	98	61.594	8.182	29.098	-0.5819	1.500	O
ATOM	460	N	GLY	99	61.715	8.430	31.314	-0.4157	1.550	N
ATOM	461	H	GLY	99	61.419	8.126	32.229	0.2719	1.300	H
ATOM	462	CA	GLY	99	62.634	9.530	31.192	-0.0252	1.700	C
ATOM	463	HA2	GLY	99	62.993	9.779	32.187	0.0698	1.200	H
ATOM	464	HA3	GLY	99	63.482	9.237	30.572	0.0698	1.200	H
ATOM	465	C	GLY	99	61.995	10.771	30.603	0.5973	1.700	C
ATOM	466	O	GLY	99	62.585	11.848	30.715	-0.5679	1.500	O
ATOM	467	N	LEU	100	60.809	10.651	29.995	-0.4157	1.550	N
ATOM	468	H	LEU	100	60.355	9.751	29.949	0.2719	1.300	H
ATOM	469	CA	LEU	100	60.134	11.811	29.418	-0.0518	1.700	C
ATOM	470	HA	LEU	100	60.715	12.152	28.561	0.0922	1.200	H
ATOM	471	CB	LEU	100	58.719	11.449	28.968	-0.1102	1.700	C
ATOM	472	HB2	LEU	100	58.816	10.668	28.222	0.0457	1.200	H
ATOM	473	HB3	LEU	100	58.185	11.034	29.814	0.0457	1.200	H
ATOM	474	CG	LEU	100	57.858	12.580	28.385	0.3531	1.700	C
ATOM	475	HG	LEU	100	57.769	13.381	29.119	-0.0361	1.200	H
ATOM	476	CD1	LEU	100	58.483	13.131	27.138	-0.4121	1.700	C
ATOM	477	HD11	LEU	100	57.820	13.865	26.681	0.1000	1.200	H
ATOM	478	HD12	LEU	100	59.440	13.599	27.361	0.1000	1.200	H
ATOM	479	HD13	LEU	100	58.648	12.326	26.420	0.1000	1.200	H
ATOM	480	CD2	LEU	100	56.465	12.083	28.069	-0.4121	1.700	C
ATOM	481	HD21	LEU	100	55.842	12.909	27.728	0.1000	1.200	H
ATOM	482	HD22	LEU	100	56.505	11.316	27.294	0.1000	1.200	H
ATOM	483	HD23	LEU	100	56.017	11.652	28.960	0.1000	1.200	H
ATOM	484	C	LEU	100	60.096	12.902	30.483	0.5973	1.700	C
ATOM	485	O	LEU	100	59.827	12.627	31.652	-0.5679	1.500	O
ATOM	486	N	ILE	101	60.455	14.122	30.103	-0.4157	1.550	N
ATOM	487	H	ILE	101	60.767	14.284	29.159	0.2719	1.300	H
ATOM	488	CA	ILE	101	60.466	15.225	31.057	-0.0597	1.700	C
ATOM	489	HA	ILE	101	61.034	14.913	31.932	0.0869	1.200	H
ATOM	490	CB	ILE	101	61.102	16.494	30.467	0.1303	1.700	C
ATOM	491	HB	ILE	101	60.515	16.847	29.622	0.0187	1.200	H
ATOM	492	CG2	ILE	101	61.129	17.599	31.530	-0.3204	1.700	C
ATOM	493	HG21	ILE	101	61.732	18.433	31.172	0.0882	1.200	H
ATOM	494	HG22	ILE	101	60.127	17.976	31.710	0.0882	1.200	H
ATOM	495	HG23	ILE	101	61.554	17.238	32.465	0.0882	1.200	H
ATOM	496	CG1	ILE	101	62.523	16.202	29.956	-0.0430	1.700	C
ATOM	497	HG12	ILE	101	62.517	15.352	29.274	0.0236	1.200	H
ATOM	498	HG13	ILE	101	62.869	17.061	29.379	0.0236	1.200	H
ATOM	499	CD1	ILE	101	63.531	15.944	31.055	-0.0660	1.700	C
ATOM	500	HD11	ILE	101	64.415	15.462	30.637	0.0186	1.200	H
ATOM	501	HD12	ILE	101	63.837	16.892	31.500	0.0186	1.200	H
ATOM	502	HD13	ILE	101	63.120	15.331	31.841	0.0186	1.200	H
ATOM	503	C	ILE	101	59.048	15.548	31.482	0.5973	1.700	C
ATOM	504	O	ILE	101	58.179	15.763	30.658	-0.5679	1.500	O
ATOM	505	N	HIS	102	58.806	15.531	32.780	-0.4157	1.550	N
ATOM	506	H	HIS	102	59.519	15.237	33.422	0.2719	1.300	H
ATOM	507	CA	HIS	102	57.488	15.827	33.286	-0.0581	1.700	C
ATOM	508	HA	HIS	102	56.767	15.183	32.779	0.1360	1.200	H
ATOM	509	CB	HIS	102	57.401	15.567	34.782	-0.0074	1.700	C
ATOM	510	HB2	HIS	102	57.787	14.568	34.989	0.0367	1.200	H
ATOM	511	HB3	HIS	102	58.029	16.288	35.304	0.0367	1.200	H
ATOM	512	CG	HIS	102	56.010	15.646	35.317	0.1868	1.700	C
ATOM	513	ND1	HIS	102	55.621	16.570	36.260	-0.5432	1.550	N
ATOM	514	CE1	HIS	102	54.346	16.387	36.553	0.1635	1.700	C
ATOM	515	HE1	HIS	102	53.755	16.993	37.224	0.1435	1.200	H
ATOM	516	NE2	HIS	102	53.896	15.380	35.829	-0.2795	1.550	N
ATOM	517	HE2	HIS	102	52.936	15.111	35.738	0.3339	1.300	H
ATOM	518	CD2	HIS	102	54.913	14.901	35.047	-0.2207	1.700	C
ATOM	519	HD2	HIS	102	54.863	14.083	34.351	0.1862	1.200	H
ATOM	520	C	HIS	102	57.148	17.270	33.037	0.5973	1.700	C
ATOM	521	O	HIS	102	58.019	18.128	33.043	-0.5679	1.500	O
ATOM	522	N	SER	103	55.848	17.517	32.942	-0.4157	1.550	N
ATOM	523	H	SER	103	55.209	16.739	33.032	0.2719	1.300	H
ATOM	524	CA	SER	103	55.248	18.824	32.715	-0.0249	1.700	C
ATOM	525	HA	SER	103	55.712	19.585	33.345	0.0843	1.200	H
ATOM	526	CB	SER	103	55.375	19.187	31.232	0.2117	1.700	C
ATOM	527	HB2	SER	103	56.410	19.428	30.988	0.0352	1.200	H
ATOM	528	HB3	SER	103	55.043	18.338	30.681	0.0352	1.200	H
ATOM	529	OG	SER	103	54.516	20.256	30.872	-0.6546	1.500	O
ATOM	530	HG	SER	103	54.746	20.550	29.987	0.4275	1.200	H
ATOM	531	C	SER	103	53.776	18.627	33.076	0.5973	1.700	C

ATOM	532	O	SER	103	53.125	17.704	32.569	-0.5679	1.500	O
ATOM	533	N	GLN	104	53.250	19.449	33.970	-0.4157	1.550	N
ATOM	534	H	GLN	104	53.806	20.175	34.397	0.2719	1.300	H
ATOM	535	CA	GLN	104	51.849	19.312	34.349	-0.0031	1.700	C
ATOM	536	HA	GLN	104	51.752	18.391	34.925	0.0850	1.200	H
ATOM	537	CB	GLN	104	51.399	20.499	35.188	-0.0036	1.700	C
ATOM	538	HB2	GLN	104	52.129	20.674	35.980	0.0171	1.200	H
ATOM	539	HB3	GLN	104	51.373	21.395	34.566	0.0171	1.200	H
ATOM	540	CG	GLN	104	50.040	20.303	35.814	-0.0645	1.700	C
ATOM	541	HG2	GLN	104	49.786	21.182	36.408	0.0352	1.200	H
ATOM	542	HG3	GLN	104	49.287	20.203	35.032	0.0352	1.200	H
ATOM	543	CD	GLN	104	50.023	19.094	36.709	0.6951	1.700	C
ATOM	544	OE1	GLN	104	51.010	18.806	37.388	-0.6086	1.500	O
ATOM	545	NE2	GLN	104	48.913	18.365	36.711	-0.9407	1.550	N
ATOM	546	HE21	GLN	104	48.849	17.539	37.285	0.4251	1.300	H
ATOM	547	HE22	GLN	104	48.146	18.600	36.092	0.4251	1.300	H
ATOM	548	C	GLN	104	50.967	19.203	33.102	0.5973	1.700	C
ATOM	549	O	GLN	104	50.020	18.422	33.056	-0.5679	1.500	O
ATOM	550	N	ARG	105	51.302	19.971	32.081	-0.3479	1.550	N
ATOM	551	H	ARG	105	52.095	20.591	32.163	0.2747	1.300	H
ATOM	552	CA	ARG	105	50.551	19.951	30.846	-0.2637	1.700	C
ATOM	553	HA	ARG	105	49.499	20.134	31.075	0.1560	1.200	H
ATOM	554	CB	ARG	105	51.092	21.021	29.915	-0.0007	1.700	C
ATOM	555	HB2	ARG	105	51.845	21.616	30.438	0.0327	1.200	H
ATOM	556	HB3	ARG	105	51.600	20.574	29.058	0.0327	1.200	H
ATOM	557	CG	ARG	105	50.067	21.973	29.418	0.0390	1.700	C
ATOM	558	HG2	ARG	105	49.635	22.398	30.317	0.0285	1.200	H
ATOM	559	HG3	ARG	105	50.580	22.767	28.872	0.0285	1.200	H
ATOM	560	CD	ARG	105	49.090	21.311	28.507	0.0486	1.700	C
ATOM	561	HD2	ARG	105	49.637	20.772	27.736	0.0687	1.200	H
ATOM	562	HD3	ARG	105	48.463	20.611	29.062	0.0687	1.200	H
ATOM	563	NE	ARG	105	48.260	22.318	27.866	-0.5295	1.550	N
ATOM	564	HE	ARG	105	48.252	22.340	26.858	0.3456	1.300	H
ATOM	565	CZ	ARG	105	47.517	23.201	28.522	0.8076	1.700	C
ATOM	566	NH1	ARG	105	47.486	23.208	29.845	-0.8627	1.550	N
ATOM	567	HH11	ARG	105	47.978	22.514	30.383	0.4478	1.300	H
ATOM	568	HH12	ARG	105	46.898	23.870	30.332	0.4478	1.300	H
ATOM	569	NH2	ARG	105	46.807	24.092	27.847	-0.8627	1.550	N
ATOM	570	HH21	ARG	105	46.798	24.083	26.840	0.4478	1.300	H
ATOM	571	HH22	ARG	105	46.243	24.756	28.357	0.4478	1.300	H
ATOM	572	C	ARG	105	50.684	18.595	30.168	0.7341	1.700	C
ATOM	573	O	ARG	105	49.698	18.025	29.690	-0.5894	1.500	O
ATOM	574	N	ARG	106	51.916	18.098	30.094	-0.3479	1.550	N
ATOM	575	H	ARG	106	52.682	18.590	30.530	0.2747	1.300	H
ATOM	576	CA	ARG	106	52.176	16.812	29.466	-0.2637	1.700	C
ATOM	577	HA	ARG	106	51.842	16.841	28.428	0.1560	1.200	H
ATOM	578	CB	ARG	106	53.669	16.490	29.501	-0.0007	1.700	C
ATOM	579	HB2	ARG	106	54.064	16.621	30.503	0.0327	1.200	H
ATOM	580	HB3	ARG	106	53.779	15.426	29.282	0.0327	1.200	H
ATOM	581	CG	ARG	106	54.464	17.219	28.454	0.0390	1.700	C
ATOM	582	HG2	ARG	106	54.198	16.803	27.480	0.0285	1.200	H
ATOM	583	HG3	ARG	106	54.211	18.280	28.455	0.0285	1.200	H
ATOM	584	CD	ARG	106	55.933	17.074	28.687	0.0486	1.700	C
ATOM	585	HD2	ARG	106	56.334	17.804	29.376	0.0687	1.200	H
ATOM	586	HD3	ARG	106	56.112	16.076	29.090	0.0687	1.200	H
ATOM	587	NE	ARG	106	56.670	17.218	27.442	-0.5295	1.550	N
ATOM	588	HE	ARG	106	56.209	17.694	26.681	0.3456	1.300	H
ATOM	589	CZ	ARG	106	57.883	16.714	27.229	0.8076	1.700	C
ATOM	590	NH1	ARG	106	58.506	16.045	28.187	-0.8627	1.550	N
ATOM	591	HH11	ARG	106	59.430	15.666	28.050	0.4478	1.300	H
ATOM	592	HH12	ARG	106	57.998	15.864	29.034	0.4478	1.300	H
ATOM	593	NH2	ARG	106	58.436	16.784	26.022	-0.8627	1.550	N
ATOM	594	HH21	ARG	106	59.335	16.356	25.859	0.4478	1.300	H
ATOM	595	HH22	ARG	106	57.956	17.251	25.268	0.4478	1.300	H
ATOM	596	C	ARG	106	51.379	15.734	30.179	0.7341	1.700	C
ATOM	597	O	ARG	106	50.772	14.876	29.540	-0.5894	1.500	O
ATOM	598	N	GLN	107	51.323	15.829	31.502	-0.4157	1.550	N
ATOM	599	H	GLN	107	51.791	16.584	31.978	0.2719	1.300	H
ATOM	600	CA	GLN	107	50.592	14.860	32.294	-0.0031	1.700	C
ATOM	601	HA	GLN	107	50.847	13.860	31.939	0.0850	1.200	H
ATOM	602	CB	GLN	107	50.986	14.947	33.756	-0.0036	1.700	C
ATOM	603	HB2	GLN	107	52.061	14.797	33.841	0.0171	1.200	H
ATOM	604	HB3	GLN	107	50.757	15.951	34.119	0.0171	1.200	H
ATOM	605	CG	GLN	107	50.270	13.952	34.601	-0.0645	1.700	C
ATOM	606	HG2	GLN	107	49.198	13.972	34.420	0.0352	1.200	H
ATOM	607	HG3	GLN	107	50.627	12.952	34.371	0.0352	1.200	H
ATOM	608	CD	GLN	107	50.461	14.238	36.033	0.6951	1.700	C

ATOM	609	OE1	GLN	107	51.537	14.621	36.440	-0.6086	1.500	O
ATOM	610	NE2	GLN	107	49.408	14.113	36.815	-0.9407	1.550	N
ATOM	611	HE21	GLN	107	48.521	13.805	36.435	0.4251	1.300	H
ATOM	612	HE22	GLN	107	49.481	14.315	37.803	0.4251	1.300	H
ATOM	613	C	GLN	107	49.089	15.032	32.174	0.5973	1.700	C
ATOM	614	O	GLN	107	48.376	14.036	32.098	-0.5679	1.500	O
ATOM	615	N	ASP	108	48.607	16.280	32.206	-0.5163	1.550	N
ATOM	616	H	ASP	108	49.243	17.054	32.286	0.2936	1.300	H
ATOM	617	CA	ASP	108	47.171	16.583	32.090	0.0381	1.700	C
ATOM	618	HA	ASP	108	46.624	16.092	32.897	0.0880	1.200	H
ATOM	619	CB	ASP	108	46.908	18.087	32.107	-0.0303	1.700	C
ATOM	620	HB2	ASP	108	47.606	18.604	31.448	-0.0122	1.200	H
ATOM	621	HB3	ASP	108	45.892	18.244	31.748	-0.0122	1.200	H
ATOM	622	CG	ASP	108	46.957	18.683	33.489	0.7994	1.700	C
ATOM	623	OD1	ASP	108	46.963	17.920	34.473	-0.8014	1.500	O
ATOM	624	OD2	ASP	108	46.979	19.928	33.594	-0.8014	1.500	O
ATOM	625	C	ASP	108	46.668	16.029	30.779	0.5366	1.700	C
ATOM	626	O	ASP	108	45.539	15.550	30.696	-0.5819	1.500	O
ATOM	627	N	ILE	109	47.506	16.123	29.753	-0.4157	1.550	N
ATOM	628	H	ILE	109	48.412	16.547	29.893	0.2719	1.300	H
ATOM	629	CA	ILE	109	47.181	15.605	28.442	-0.0597	1.700	C
ATOM	630	HA	ILE	109	46.222	16.012	28.117	0.0869	1.200	H
ATOM	631	CB	ILE	109	48.262	16.001	27.460	0.1303	1.700	C
ATOM	632	HB	ILE	109	49.233	15.688	27.832	0.0187	1.200	H
ATOM	633	CG2	ILE	109	48.042	15.342	26.126	-0.3204	1.700	C
ATOM	634	HG21	ILE	109	47.003	15.469	25.809	0.0882	1.200	H
ATOM	635	HG22	ILE	109	48.708	15.717	25.352	0.0882	1.200	H
ATOM	636	HG23	ILE	109	48.253	14.274	26.209	0.0882	1.200	H
ATOM	637	CG1	ILE	109	48.273	17.526	27.328	-0.0430	1.700	C
ATOM	638	HG12	ILE	109	47.367	17.758	26.764	0.0236	1.200	H
ATOM	639	HG13	ILE	109	48.087	18.097	28.221	0.0236	1.200	H
ATOM	640	CD1	ILE	109	49.386	18.066	26.458	-0.0660	1.700	C
ATOM	641	HD11	ILE	109	49.358	17.673	25.446	0.0186	1.200	H
ATOM	642	HD12	ILE	109	49.270	19.145	26.376	0.0186	1.200	H
ATOM	643	HD13	ILE	109	50.352	17.851	26.915	0.0186	1.200	H
ATOM	644	C	ILE	109	47.069	14.083	28.533	0.5973	1.700	C
ATOM	645	O	ILE	109	46.086	13.492	28.068	-0.5679	1.500	O
ATOM	646	N	LEU	110	48.055	13.465	29.187	-0.4157	1.550	N
ATOM	647	H	LEU	110	48.805	14.015	29.581	0.2719	1.300	H
ATOM	648	CA	LEU	110	48.099	12.018	29.380	-0.0518	1.700	C
ATOM	649	HA	LEU	110	48.167	11.540	28.403	0.0922	1.200	H
ATOM	650	CB	LEU	110	49.324	11.622	30.229	-0.1102	1.700	C
ATOM	651	HB2	LEU	110	50.113	12.346	30.024	0.0457	1.200	H
ATOM	652	HB3	LEU	110	49.074	11.757	31.282	0.0457	1.200	H
ATOM	653	CG	LEU	110	50.008	10.236	30.103	0.3531	1.700	C
ATOM	654	HG	LEU	110	50.635	10.235	29.210	-0.0361	1.200	H
ATOM	655	CD1	LEU	110	50.883	9.980	31.313	-0.4121	1.700	C
ATOM	656	HD11	LEU	110	51.343	9.006	31.223	0.1000	1.200	H
ATOM	657	HD12	LEU	110	51.651	10.749	31.390	0.1000	1.200	H
ATOM	658	HD13	LEU	110	50.280	9.992	32.222	0.1000	1.200	H
ATOM	659	CD2	LEU	110	49.004	9.111	29.970	-0.4121	1.700	C
ATOM	660	HD21	LEU	110	49.503	8.142	30.006	0.1000	1.200	H
ATOM	661	HD22	LEU	110	48.342	9.242	30.813	0.1000	1.200	H
ATOM	662	HD23	LEU	110	48.450	9.199	29.035	0.1000	1.200	H
ATOM	663	C	LEU	110	46.837	11.546	30.094	0.5973	1.700	C
ATOM	664	O	LEU	110	46.174	10.598	29.657	-0.5679	1.500	O
ATOM	665	N	ASP	111	46.498	12.203	31.192	-0.5163	1.550	N
ATOM	666	H	ASP	111	47.058	12.970	31.528	0.2936	1.300	H
ATOM	667	CA	ASP	111	45.329	11.808	31.956	0.0381	1.700	C
ATOM	668	HA	ASP	111	45.431	10.748	32.195	0.0880	1.200	H
ATOM	669	CB	ASP	111	45.271	12.565	33.261	-0.0303	1.700	C
ATOM	670	HB2	ASP	111	45.270	13.639	33.066	-0.0122	1.200	H
ATOM	671	HB3	ASP	111	44.351	12.304	33.782	-0.0122	1.200	H
ATOM	672	CG	ASP	111	46.415	12.216	34.164	0.7994	1.700	C
ATOM	673	OD1	ASP	111	47.179	11.305	33.818	-0.8014	1.500	O
ATOM	674	OD2	ASP	111	46.557	12.849	35.217	-0.8014	1.500	O
ATOM	675	C	ASP	111	44.025	11.944	31.228	0.5366	1.700	C
ATOM	676	O	ASP	111	43.135	11.119	31.406	-0.5819	1.500	O
ATOM	677	N	LEU	112	43.906	12.973	30.398	-0.4157	1.550	N
ATOM	678	H	LEU	112	44.661	13.640	30.306	0.2719	1.300	H
ATOM	679	CA	LEU	112	42.678	13.178	29.646	-0.0518	1.700	C
ATOM	680	HA	LEU	112	41.826	13.094	30.321	0.0922	1.200	H
ATOM	681	CB	LEU	112	42.652	14.557	28.983	-0.1102	1.700	C
ATOM	682	HB2	LEU	112	43.581	14.667	28.420	0.0457	1.200	H
ATOM	683	HB3	LEU	112	41.839	14.567	28.254	0.0457	1.200	H
ATOM	684	CG	LEU	112	42.493	15.776	29.890	0.3531	1.700	C
ATOM	685	HG	LEU	112	43.205	15.753	30.704	-0.0361	1.200	H

ATOM	686	CD1	LEU	112	42.721	17.022	29.065	-0.4121	1.700	C
ATOM	687	HD11	LEU	112	43.764	17.060	28.748	0.1000	1.200	H
ATOM	688	HD12	LEU	112	42.089	17.011	28.184	0.1000	1.200	H
ATOM	689	HD13	LEU	112	42.512	17.912	29.658	0.1000	1.200	H
ATOM	690	CD2	LEU	112	41.105	15.781	30.529	-0.4121	1.700	C
ATOM	691	HD21	LEU	112	41.055	15.009	31.299	0.1000	1.200	H
ATOM	692	HD22	LEU	112	40.916	16.746	31.005	0.1000	1.200	H
ATOM	693	HD23	LEU	112	40.334	15.596	29.778	0.1000	1.200	H
ATOM	694	C	LEU	112	42.566	12.089	28.606	0.5973	1.700	C
ATOM	695	O	LEU	112	41.471	11.594	28.349	-0.5679	1.500	O
ATOM	696	N	TRP	113	43.694	11.697	28.025	-0.4157	1.550	N
ATOM	697	H	TRP	113	44.572	12.125	28.289	0.2719	1.300	H
ATOM	698	CA	TRP	113	43.703	10.637	27.022	-0.0275	1.700	C
ATOM	699	HA	TRP	113	43.039	10.922	26.204	0.1123	1.200	H
ATOM	700	CB	TRP	113	45.120	10.456	26.457	-0.0050	1.700	C
ATOM	701	HB2	TRP	113	45.427	11.390	25.984	0.0339	1.200	H
ATOM	702	HB3	TRP	113	45.820	10.254	27.263	0.0339	1.200	H
ATOM	703	CG	TRP	113	45.242	9.355	25.449	-0.1415	1.700	C
ATOM	704	CD1	TRP	113	44.892	9.396	24.125	-0.1638	1.700	C
ATOM	705	HD1	TRP	113	44.487	10.263	23.623	0.2062	1.200	H
ATOM	706	NE1	TRP	113	45.102	8.174	23.542	-0.3418	1.550	N
ATOM	707	HE1	TRP	113	44.903	7.968	22.574	0.3412	1.300	H
ATOM	708	CE2	TRP	113	45.600	7.317	24.487	0.1380	1.700	C
ATOM	709	CZ2	TRP	113	45.962	5.979	24.380	-0.2601	1.700	C
ATOM	710	HZ2	TRP	113	45.874	5.450	23.443	0.1572	1.200	H
ATOM	711	CH2	TRP	113	46.437	5.357	25.506	-0.1134	1.700	C
ATOM	712	HH2	TRP	113	46.720	4.324	25.419	0.1417	1.200	H
ATOM	713	CZ3	TRP	113	46.557	6.040	26.723	-0.1972	1.700	C
ATOM	714	HZ3	TRP	113	46.976	5.533	27.582	0.1447	1.200	H
ATOM	715	CE3	TRP	113	46.196	7.372	26.830	-0.2387	1.700	C
ATOM	716	HE3	TRP	113	46.379	7.935	27.718	0.1700	1.200	H
ATOM	717	CD2	TRP	113	45.706	8.030	25.697	0.1243	1.700	C
ATOM	718	C	TRP	113	43.177	9.333	27.642	0.5973	1.700	C
ATOM	719	O	TRP	113	42.280	8.704	27.102	-0.5679	1.500	O
ATOM	720	N	ILE	114	43.681	8.977	28.816	-0.4157	1.550	N
ATOM	721	H	ILE	114	44.393	9.554	29.244	0.2719	1.300	H
ATOM	722	CA	ILE	114	43.258	7.763	29.527	-0.0597	1.700	C
ATOM	723	HA	ILE	114	43.377	6.907	28.862	0.0869	1.200	H
ATOM	724	CB	ILE	114	44.145	7.541	30.777	0.1303	1.700	C
ATOM	725	HB	ILE	114	44.133	8.473	31.346	0.0187	1.200	H
ATOM	726	CG2	ILE	114	43.579	6.451	31.705	-0.3204	1.700	C
ATOM	727	HG21	ILE	114	44.251	6.290	32.546	0.0882	1.200	H
ATOM	728	HG22	ILE	114	42.619	6.759	32.114	0.0882	1.200	H
ATOM	729	HG23	ILE	114	43.468	5.518	31.154	0.0882	1.200	H
ATOM	730	CG1	ILE	114	45.589	7.286	30.335	-0.0430	1.700	C
ATOM	731	HG12	ILE	114	45.708	6.267	29.964	0.0236	1.200	H
ATOM	732	HG13	ILE	114	45.846	7.998	29.575	0.0236	1.200	H
ATOM	733	CD1	ILE	114	46.592	7.581	31.432	-0.0660	1.700	C
ATOM	734	HD11	ILE	114	47.581	7.300	31.089	0.0186	1.200	H
ATOM	735	HD12	ILE	114	46.526	8.621	31.750	0.0186	1.200	H
ATOM	736	HD13	ILE	114	46.385	6.925	32.273	0.0186	1.200	H
ATOM	737	C	ILE	114	41.789	7.843	29.940	0.5973	1.700	C
ATOM	738	O	ILE	114	41.086	6.831	29.979	-0.5679	1.500	O
ATOM	739	N	TYR	115	41.334	9.041	30.282	-0.4157	1.550	N
ATOM	740	H	TYR	115	41.957	9.837	30.276	0.2719	1.300	H
ATOM	741	CA	TYR	115	39.946	9.259	30.670	-0.0014	1.700	C
ATOM	742	HA	TYR	115	39.717	8.599	31.505	0.0876	1.200	H
ATOM	743	CB	TYR	115	39.760	10.713	31.098	-0.0152	1.700	C
ATOM	744	HB2	TYR	115	40.446	10.890	31.917	0.0295	1.200	H
ATOM	745	HB3	TYR	115	40.083	11.361	30.291	0.0295	1.200	H
ATOM	746	CG	TYR	115	38.346	11.101	31.430	-0.0011	1.700	C
ATOM	747	CD1	TYR	115	37.479	10.202	32.030	-0.1906	1.700	C
ATOM	748	HD1	TYR	115	37.808	9.205	32.281	0.1699	1.200	H
ATOM	749	CE1	TYR	115	36.188	10.559	32.347	-0.2341	1.700	C
ATOM	750	HE1	TYR	115	35.529	9.846	32.820	0.1656	1.200	H
ATOM	751	CZ	TYR	115	35.749	11.838	32.066	0.3226	1.700	C
ATOM	752	OH	TYR	115	34.455	12.214	32.394	-0.5579	1.500	O
ATOM	753	HH	TYR	115	33.947	11.500	32.784	0.3992	1.200	H
ATOM	754	CE2	TYR	115	36.600	12.747	31.465	-0.2341	1.700	C
ATOM	755	HE2	TYR	115	36.249	13.740	31.250	0.1656	1.200	H
ATOM	756	CD2	TYR	115	37.883	12.373	31.152	-0.1906	1.700	C
ATOM	757	HD2	TYR	115	38.540	13.093	30.684	0.1699	1.200	H
ATOM	758	C	TYR	115	39.013	8.929	29.499	0.5973	1.700	C
ATOM	759	O	TYR	115	38.077	8.157	29.663	-0.5679	1.500	O
ATOM	760	N	HIS	116	39.285	9.499	28.324	-0.4157	1.550	N
ATOM	761	H	HIS	116	40.077	10.123	28.246	0.2719	1.300	H
ATOM	762	CA	HIS	116	38.466	9.273	27.131	-0.0581	1.700	C

ATOM	763	HA	HIS	116	37.538	9.558	27.502	0.1360	1.200	H
ATOM	764	CB	HIS	116	38.913	10.203	25.986	-0.0074	1.700	C
ATOM	765	HB2	HIS	116	38.552	11.212	26.188	0.0367	1.200	H
ATOM	766	HB3	HIS	116	40.004	10.241	25.968	0.0367	1.200	H
ATOM	767	CG	HIS	116	38.460	9.766	24.615	0.1868	1.700	C
ATOM	768	ND1	HIS	116	38.933	8.803	23.777	-0.5432	1.550	N
ATOM	769	CE1	HIS	116	38.171	8.844	22.632	0.1635	1.700	C
ATOM	770	HE1	HIS	116	38.289	8.198	21.776	0.1435	1.200	H
ATOM	771	NE2	HIS	116	37.262	9.797	22.760	-0.2795	1.550	N
ATOM	772	HE2	HIS	116	36.553	10.026	22.077	0.3339	1.300	H
ATOM	773	CD2	HIS	116	37.413	10.368	23.946	-0.2207	1.700	C
ATOM	774	HD2	HIS	116	36.816	11.181	24.332	0.1862	1.200	H
ATOM	775	C	HIS	116	38.581	7.843	26.661	0.5973	1.700	C
ATOM	776	O	HIS	116	37.592	7.226	26.295	-0.5679	1.500	O
ATOM	777	N	THR	117	39.827	7.392	26.570	-0.4157	1.550	N
ATOM	778	H	THR	117	40.569	8.018	26.846	0.2719	1.300	H
ATOM	779	CA	THR	117	40.230	6.063	26.118	-0.0389	1.700	C
ATOM	780	HA	THR	117	39.774	5.901	25.140	0.1007	1.200	H
ATOM	781	CB	THR	117	41.740	6.091	25.928	0.3654	1.700	C
ATOM	782	HB	THR	117	42.214	6.536	26.791	0.0043	1.200	H
ATOM	783	CG2	THR	117	42.337	4.739	25.837	-0.2438	1.700	C
ATOM	784	HG21	THR	117	43.154	4.639	26.542	0.0642	1.200	H
ATOM	785	HG22	THR	117	41.625	3.930	25.832	0.0642	1.200	H
ATOM	786	HG23	THR	117	42.831	4.637	24.869	0.0642	1.200	H
ATOM	787	OG1	THR	117	42.015	6.790	24.722	-0.6761	1.500	O
ATOM	788	HG1	THR	117	42.861	7.233	24.826	0.4102	1.200	H
ATOM	789	C	THR	117	39.816	4.877	26.993	0.5973	1.700	C
ATOM	790	O	THR	117	39.170	3.942	26.514	-0.5679	1.500	O
ATOM	791	N	GLN	118	40.174	4.938	28.270	-0.4157	1.550	N
ATOM	792	H	GLN	118	40.689	5.738	28.601	0.2719	1.300	H
ATOM	793	CA	GLN	118	39.872	3.879	29.206	-0.0031	1.700	C
ATOM	794	HA	GLN	118	39.441	3.048	28.654	0.0850	1.200	H
ATOM	795	CB	GLN	118	41.170	3.383	29.819	-0.0036	1.700	C
ATOM	796	HB2	GLN	118	41.576	4.157	30.470	0.0171	1.200	H
ATOM	797	HB3	GLN	118	40.968	2.505	30.433	0.0171	1.200	H
ATOM	798	CG	GLN	118	42.219	3.026	28.772	-0.0645	1.700	C
ATOM	799	HG2	GLN	118	42.541	3.930	28.290	0.0352	1.200	H
ATOM	800	HG3	GLN	118	43.096	2.643	29.296	0.0352	1.200	H
ATOM	801	CD	GLN	118	41.761	1.947	27.802	0.6951	1.700	C
ATOM	802	OE1	GLN	118	40.821	1.208	28.074	-0.6086	1.500	O
ATOM	803	NE2	GLN	118	42.456	1.829	26.679	-0.9407	1.550	N
ATOM	804	HE21	GLN	118	43.241	2.435	26.501	0.4251	1.300	H
ATOM	805	HE22	GLN	118	42.211	1.104	26.022	0.4251	1.300	H
ATOM	806	C	GLN	118	38.816	4.165	30.289	0.5973	1.700	C
ATOM	807	O	GLN	118	38.381	3.244	30.976	-0.5679	1.500	O
ATOM	808	N	GLY	119	38.437	5.421	30.502	-0.4157	1.550	N
ATOM	809	H	GLY	119	38.805	6.179	29.944	0.2719	1.300	H
ATOM	810	CA	GLY	119	37.373	5.682	31.457	-0.0252	1.700	C
ATOM	811	HA2	GLY	119	36.812	6.542	31.095	0.0698	1.200	H
ATOM	812	HA3	GLY	119	36.676	4.847	31.455	0.0698	1.200	H
ATOM	813	C	GLY	119	37.723	5.957	32.898	0.5973	1.700	C
ATOM	814	O	GLY	119	36.858	5.943	33.781	-0.5679	1.500	O
ATOM	815	N	TYR	120	38.992	6.226	33.156	-0.4157	1.550	N
ATOM	816	H	TYR	120	39.672	6.235	32.409	0.2719	1.300	H
ATOM	817	CA	TYR	120	39.432	6.520	34.511	-0.0014	1.700	C
ATOM	818	HA	TYR	120	38.762	6.071	35.244	0.0876	1.200	H
ATOM	819	CB	TYR	120	40.829	5.955	34.733	-0.0152	1.700	C
ATOM	820	HB2	TYR	120	41.524	6.396	34.022	0.0295	1.200	H
ATOM	821	HB3	TYR	120	41.160	6.231	35.734	0.0295	1.200	H
ATOM	822	CG	TYR	120	40.857	4.456	34.614	-0.0011	1.700	C
ATOM	823	CD1	TYR	120	40.099	3.678	35.482	-0.1906	1.700	C
ATOM	824	HD1	TYR	120	39.557	4.155	36.283	0.1699	1.200	H
ATOM	825	CE1	TYR	120	40.059	2.308	35.365	-0.2341	1.700	C
ATOM	826	HE1	TYR	120	39.460	1.720	36.039	0.1656	1.200	H
ATOM	827	CZ	TYR	120	40.781	1.692	34.370	0.3226	1.700	C
ATOM	828	OH	TYR	120	40.679	0.329	34.290	-0.5579	1.500	O
ATOM	829	HH	TYR	120	40.158	-0.033	35.008	0.3992	1.200	H
ATOM	830	CE2	TYR	120	41.562	2.432	33.479	-0.2341	1.700	C
ATOM	831	HE2	TYR	120	42.123	1.937	32.698	0.1656	1.200	H
ATOM	832	CD2	TYR	120	41.597	3.812	33.607	-0.1906	1.700	C
ATOM	833	HD2	TYR	120	42.195	4.393	32.923	0.1699	1.200	H
ATOM	834	C	TYR	120	39.430	8.029	34.690	0.5973	1.700	C
ATOM	835	O	TYR	120	40.177	8.742	34.006	-0.5679	1.500	O
ATOM	836	N	PHE	121	38.535	8.516	35.542	-0.4157	1.550	N
ATOM	837	H	PHE	121	37.934	7.883	36.048	0.2719	1.300	H
ATOM	838	CA	PHE	121	38.425	9.936	35.821	-0.0024	1.700	C
ATOM	839	HA	PHE	121	38.004	10.401	34.933	0.0978	1.200	H

ATOM	840	CB	PHE	121	37.479	10.157	36.993	-0.0343	1.700	C
ATOM	841	HB2	PHE	121	36.632	9.476	36.892	0.0295	1.200	H
ATOM	842	HB3	PHE	121	37.978	9.906	37.931	0.0295	1.200	H
ATOM	843	CG	PHE	121	36.934	11.532	37.058	0.0118	1.700	C
ATOM	844	CD1	PHE	121	35.898	11.910	36.220	-0.1256	1.700	C
ATOM	845	HD1	PHE	121	35.459	11.190	35.544	0.1330	1.200	H
ATOM	846	CE1	PHE	121	35.438	13.218	36.214	-0.1704	1.700	C
ATOM	847	HE1	PHE	121	34.641	13.511	35.546	0.1430	1.200	H
ATOM	848	CZ	PHE	121	36.018	14.153	37.059	-0.1072	1.700	C
ATOM	849	HZ	PHE	121	35.672	15.177	37.057	0.1297	1.200	H
ATOM	850	CE2	PHE	121	37.051	13.777	37.908	-0.1704	1.700	C
ATOM	851	HE2	PHE	121	37.515	14.499	38.564	0.1430	1.200	H
ATOM	852	CD2	PHE	121	37.499	12.477	37.903	-0.1256	1.700	C
ATOM	853	HD2	PHE	121	38.328	12.204	38.534	0.1330	1.200	H
ATOM	854	C	PHE	121	39.817	10.461	36.156	0.5973	1.700	C
ATOM	855	O	PHE	121	40.487	9.933	37.044	-0.5679	1.500	O
ATOM	856	N	PRO	122	40.271	11.504	35.446	-0.2548	1.550	N
ATOM	857	CD	PRO	122	39.563	12.224	34.377	0.0192	1.700	C
ATOM	858	HD2	PRO	122	38.518	12.410	34.626	0.0391	1.200	H
ATOM	859	HD3	PRO	122	39.648	11.688	33.461	0.0391	1.200	H
ATOM	860	CG	PRO	122	40.301	13.525	34.339	0.0189	1.700	C
ATOM	861	HG2	PRO	122	39.975	14.173	35.155	0.0213	1.200	H
ATOM	862	HG3	PRO	122	40.160	14.026	33.382	0.0213	1.200	H
ATOM	863	CB	PRO	122	41.692	13.109	34.523	-0.0070	1.700	C
ATOM	864	HB2	PRO	122	42.358	13.949	34.726	0.0253	1.200	H
ATOM	865	HB3	PRO	122	42.031	12.603	33.617	0.0253	1.200	H
ATOM	866	CA	PRO	122	41.592	12.095	35.661	-0.0266	1.700	C
ATOM	867	HA	PRO	122	42.358	11.332	35.517	0.0641	1.200	H
ATOM	868	C	PRO	122	41.820	12.751	37.006	0.5896	1.700	C
ATOM	869	O	PRO	122	41.823	13.973	37.101	-0.5748	1.500	O
ATOM	870	N	ASP	123	41.992	11.955	38.052	-0.5163	1.550	N
ATOM	871	H	ASP	123	41.880	10.956	37.961	0.2936	1.300	H
ATOM	872	CA	ASP	123	42.255	12.509	39.381	0.0381	1.700	C
ATOM	873	HA	ASP	123	42.856	13.414	39.282	0.0880	1.200	H
ATOM	874	CB	ASP	123	40.947	12.863	40.094	-0.0303	1.700	C
ATOM	875	HB2	ASP	123	41.180	13.365	41.034	-0.0122	1.200	H
ATOM	876	HB3	ASP	123	40.379	13.563	39.479	-0.0122	1.200	H
ATOM	877	CG	ASP	123	40.086	11.663	40.379	0.7994	1.700	C
ATOM	878	OD1	ASP	123	40.296	10.606	39.757	-0.8014	1.500	O
ATOM	879	OD2	ASP	123	39.173	11.774	41.223	-0.8014	1.500	O
ATOM	880	C	ASP	123	43.060	11.514	40.204	0.5366	1.700	C
ATOM	881	O	ASP	123	43.178	11.627	41.426	-0.5819	1.500	O
ATOM	882	N	TRP	124	43.648	10.555	39.508	-0.4157	1.550	N
ATOM	883	H	TRP	124	43.546	10.525	38.504	0.2719	1.300	H
ATOM	884	CA	TRP	124	44.409	9.511	40.154	-0.0275	1.700	C
ATOM	885	HA	TRP	124	44.077	9.413	41.189	0.1123	1.200	H
ATOM	886	CB	TRP	124	44.087	8.173	39.478	-0.0050	1.700	C
ATOM	887	HB2	TRP	124	44.666	7.380	39.951	0.0339	1.200	H
ATOM	888	HB3	TRP	124	43.030	7.947	39.632	0.0339	1.200	H
ATOM	889	CG	TRP	124	44.358	8.181	38.026	-0.1415	1.700	C
ATOM	890	CD1	TRP	124	43.546	8.647	37.030	-0.1638	1.700	C
ATOM	891	HD1	TRP	124	42.566	9.047	37.188	0.2062	1.200	H
ATOM	892	NE1	TRP	124	44.196	8.571	35.811	-0.3418	1.550	N
ATOM	893	HE1	TRP	124	43.809	8.884	34.932	0.3412	1.300	H
ATOM	894	CE2	TRP	124	45.444	8.040	36.016	0.1380	1.700	C
ATOM	895	CZ2	TRP	124	46.472	7.773	35.111	-0.2601	1.700	C
ATOM	896	HZ2	TRP	124	46.371	8.036	34.075	0.1572	1.200	H
ATOM	897	CH2	TRP	124	47.629	7.240	35.614	-0.1134	1.700	C
ATOM	898	HH2	TRP	124	48.455	7.056	34.944	0.1417	1.200	H
ATOM	899	CZ3	TRP	124	47.781	6.969	36.984	-0.1972	1.700	C
ATOM	900	HZ3	TRP	124	48.699	6.594	37.364	0.1447	1.200	H
ATOM	901	CE3	TRP	124	46.777	7.228	37.875	-0.2387	1.700	C
ATOM	902	HE3	TRP	124	46.910	7.026	38.927	0.1700	1.200	H
ATOM	903	CD2	TRP	124	45.575	7.777	37.398	0.1243	1.700	C
ATOM	904	C	TRP	124	45.917	9.755	40.192	0.5973	1.700	C
ATOM	905	O	TRP	124	46.529	9.672	41.250	-0.5679	1.500	O
ATOM	906	N	GLN	125	46.496	10.130	39.057	-0.4157	1.550	N
ATOM	907	H	GLN	125	45.942	10.220	38.217	0.2719	1.300	H
ATOM	908	CA	GLN	125	47.929	10.347	38.956	-0.0031	1.700	C
ATOM	909	HA	GLN	125	48.416	9.476	39.397	0.0850	1.200	H
ATOM	910	CB	GLN	125	48.350	10.396	37.490	-0.0036	1.700	C
ATOM	911	HB2	GLN	125	47.937	9.539	36.974	0.0171	1.200	H
ATOM	912	HB3	GLN	125	47.910	11.287	37.038	0.0171	1.200	H
ATOM	913	CG	GLN	125	49.842	10.425	37.292	-0.0645	1.700	C
ATOM	914	HG2	GLN	125	50.359	11.207	37.819	0.0352	1.200	H
ATOM	915	HG3	GLN	125	50.228	9.479	37.665	0.0352	1.200	H
ATOM	916	CD	GLN	125	50.258	10.553	35.834	0.6951	1.700	C

ATOM	917	OE1	GLN	125	51.423	10.759	35.544	-0.6086	1.500	O
ATOM	918	NE2	GLN	125	49.313	10.441	34.919	-0.9407	1.550	N
ATOM	919	HE21	GLN	125	49.520	10.671	33.959	0.4251	1.300	H
ATOM	920	HE22	GLN	125	48.344	10.310	35.182	0.4251	1.300	H
ATOM	921	C	GLN	125	48.455	11.567	39.687	0.5973	1.700	C
ATOM	922	O	GLN	125	49.004	12.463	39.061	-0.5679	1.500	O
ATOM	923	N	ASN	126	48.304	11.591	41.009	-0.4157	1.550	N
ATOM	924	H	ASN	126	47.870	10.811	41.473	0.2719	1.300	H
ATOM	925	CA	ASN	126	48.790	12.685	41.850	0.0143	1.700	C
ATOM	926	HA	ASN	126	48.978	13.576	41.249	0.1048	1.200	H
ATOM	927	CB	ASN	126	47.762	13.020	42.920	-0.2041	1.700	C
ATOM	928	HB2	ASN	126	47.523	12.115	43.482	0.0797	1.200	H
ATOM	929	HB3	ASN	126	48.186	13.745	43.616	0.0797	1.200	H
ATOM	930	CG	ASN	126	46.519	13.609	42.340	0.7130	1.700	C
ATOM	931	OD1	ASN	126	46.586	14.469	41.454	-0.5931	1.500	O
ATOM	932	ND2	ASN	126	45.373	13.127	42.785	-0.9191	1.550	N
ATOM	933	HD21	ASN	126	45.364	12.390	43.472	0.4196	1.300	H
ATOM	934	HD22	ASN	126	44.511	13.445	42.365	0.4196	1.300	H
ATOM	935	C	ASN	126	50.090	12.254	42.515	0.5973	1.700	C
ATOM	936	O	ASN	126	50.201	11.119	42.987	-0.5679	1.500	O
ATOM	937	N	TYR	127	51.070	13.144	42.567	-0.4157	1.550	N
ATOM	938	H	TYR	127	50.946	14.068	42.180	0.2719	1.300	H
ATOM	939	CA	TYR	127	52.343	12.797	43.168	-0.0014	1.700	C
ATOM	940	HA	TYR	127	52.377	11.734	43.396	0.0876	1.200	H
ATOM	941	CB	TYR	127	53.456	13.054	42.165	-0.0152	1.700	C
ATOM	942	HB2	TYR	127	53.533	14.118	41.934	0.0295	1.200	H
ATOM	943	HB3	TYR	127	54.363	12.716	42.642	0.0295	1.200	H
ATOM	944	CG	TYR	127	53.332	12.235	40.903	-0.0011	1.700	C
ATOM	945	CD1	TYR	127	53.732	10.904	40.872	-0.1906	1.700	C
ATOM	946	HD1	TYR	127	54.158	10.460	41.756	0.1699	1.200	H
ATOM	947	CE1	TYR	127	53.616	10.138	39.715	-0.2341	1.700	C
ATOM	948	HE1	TYR	127	53.946	9.114	39.706	0.1656	1.200	H
ATOM	949	CZ	TYR	127	53.105	10.704	38.569	0.3226	1.700	C
ATOM	950	OH	TYR	127	53.019	9.952	37.407	-0.5579	1.500	O
ATOM	951	HH	TYR	127	52.591	10.433	36.690	0.3992	1.200	H
ATOM	952	CE2	TYR	127	52.703	12.028	38.578	-0.2341	1.700	C
ATOM	953	HE2	TYR	127	52.309	12.481	37.681	0.1656	1.200	H
ATOM	954	CD2	TYR	127	52.817	12.785	39.744	-0.1906	1.700	C
ATOM	955	HD2	TYR	127	52.504	13.820	39.730	0.1699	1.200	H
ATOM	956	C	TYR	127	52.606	13.543	44.475	0.5973	1.700	C
ATOM	957	O	TYR	127	51.977	14.556	44.753	-0.5679	1.500	O
ATOM	958	N	THR	128	53.496	13.013	45.302	-0.4157	1.550	N
ATOM	959	H	THR	128	53.981	12.163	45.053	0.2719	1.300	H
ATOM	960	CA	THR	128	53.824	13.648	46.564	-0.0389	1.700	C
ATOM	961	HA	THR	128	52.900	13.845	47.107	0.1007	1.200	H
ATOM	962	CB	THR	128	54.757	12.769	47.415	0.3654	1.700	C
ATOM	963	HB	THR	128	55.172	13.343	48.232	0.0043	1.200	H
ATOM	964	CG2	THR	128	53.999	11.584	48.010	-0.2438	1.700	C
ATOM	965	HG21	THR	128	54.682	10.973	48.599	0.0642	1.200	H
ATOM	966	HG22	THR	128	53.196	11.942	48.654	0.0642	1.200	H
ATOM	967	HG23	THR	128	53.578	10.972	47.218	0.0642	1.200	H
ATOM	968	OG1	THR	128	55.868	12.333	46.613	-0.6761	1.500	O
ATOM	969	HG1	THR	128	56.545	12.009	47.213	0.4102	1.200	H
ATOM	970	C	THR	128	54.562	14.932	46.260	0.5973	1.700	C
ATOM	971	O	THR	128	55.011	15.147	45.124	-0.5679	1.500	O
ATOM	972	N	PRO	129	54.712	15.799	47.276	-0.2548	1.550	N
ATOM	973	CD	PRO	129	54.148	15.640	48.626	0.0192	1.700	C
ATOM	974	HD2	PRO	129	54.774	15.032	49.259	0.0391	1.200	H
ATOM	975	HD3	PRO	129	53.146	15.277	48.514	0.0391	1.200	H
ATOM	976	CG	PRO	129	54.100	17.046	49.111	0.0189	1.700	C
ATOM	977	HG2	PRO	129	54.033	17.117	50.198	0.0213	1.200	H
ATOM	978	HG3	PRO	129	53.320	17.607	48.603	0.0213	1.200	H
ATOM	979	CB	PRO	129	55.316	17.615	48.594	-0.0070	1.700	C
ATOM	980	HB2	PRO	129	56.160	17.258	49.189	0.0253	1.200	H
ATOM	981	HB3	PRO	129	55.287	18.705	48.610	0.0253	1.200	H
ATOM	982	CA	PRO	129	55.397	17.085	47.170	-0.0266	1.700	C
ATOM	983	HA	PRO	129	54.875	17.743	46.473	0.0641	1.200	H
ATOM	984	C	PRO	129	56.863	16.921	46.801	0.5896	1.700	C
ATOM	985	O	PRO	129	57.395	15.806	46.763	-0.5748	1.500	O
ATOM	986	N	GLY	130	57.509	18.040	46.510	-0.4157	1.550	N
ATOM	987	H	GLY	130	57.035	18.929	46.561	0.2719	1.300	H
ATOM	988	CA	GLY	130	58.926	18.006	46.233	-0.0252	1.700	C
ATOM	989	HA2	GLY	130	59.280	17.027	45.916	0.0698	1.200	H
ATOM	990	HA3	GLY	130	59.133	18.779	45.510	0.0698	1.200	H
ATOM	991	C	GLY	130	59.606	18.419	47.536	0.5973	1.700	C
ATOM	992	O	GLY	130	58.934	18.567	48.580	-0.5679	1.500	O
ATOM	993	N	PRO	131	60.941	18.565	47.530	-0.2548	1.550	N

ATOM	994	CD	PRO	131	61.740	19.194	48.600	0.0192	1.700	C
ATOM	995	HD2	PRO	131	61.717	18.602	49.515	0.0391	1.200	H
ATOM	996	HD3	PRO	131	61.384	20.208	48.782	0.0391	1.200	H
ATOM	997	CG	PRO	131	63.136	19.220	48.005	0.0189	1.700	C
ATOM	998	HG2	PRO	131	63.664	18.297	48.253	0.0213	1.200	H
ATOM	999	HG3	PRO	131	63.703	20.077	48.369	0.0213	1.200	H
ATOM	1000	CB	PRO	131	62.908	19.307	46.529	-0.0070	1.700	C
ATOM	1001	HB2	PRO	131	63.796	18.954	46.003	0.0253	1.200	H
ATOM	1002	HB3	PRO	131	62.737	20.309	46.198	0.0253	1.200	H
ATOM	1003	CA	PRO	131	61.754	18.336	46.332	-0.0266	1.700	C
ATOM	1004	HA	PRO	131	61.245	18.567	45.400	0.0641	1.200	H
ATOM	1005	C	PRO	131	62.235	16.890	46.345	0.5896	1.700	C
ATOM	1006	O	PRO	131	62.070	16.191	47.339	-0.5748	1.500	O
ATOM	1007	N	GLY	132	62.844	16.455	45.254	-0.4157	1.550	N
ATOM	1008	H	GLY	132	63.013	17.067	44.469	0.2719	1.300	H
ATOM	1009	CA	GLY	132	63.339	15.095	45.182	-0.0252	1.700	C
ATOM	1010	HA2	GLY	132	64.346	15.112	44.767	0.0698	1.200	H
ATOM	1011	HA3	GLY	132	63.412	14.641	46.171	0.0698	1.200	H
ATOM	1012	C	GLY	132	62.462	14.237	44.296	0.5973	1.700	C
ATOM	1013	O	GLY	132	61.935	14.710	43.290	-0.5679	1.500	O
ATOM	1014	N	VAL	133	62.358	12.957	44.633	-0.4157	1.550	N
ATOM	1015	H	VAL	133	62.802	12.617	45.473	0.2719	1.300	H
ATOM	1016	CA	VAL	133	61.540	12.039	43.866	-0.0875	1.700	C
ATOM	1017	HA	VAL	133	61.668	12.254	42.813	0.0969	1.200	H
ATOM	1018	CB	VAL	133	61.904	10.582	44.156	0.2985	1.700	C
ATOM	1019	HB	VAL	133	61.746	10.366	45.214	-0.0297	1.200	H
ATOM	1020	CG1	VAL	133	61.041	9.674	43.337	-0.3192	1.700	C
ATOM	1021	HG11	VAL	133	61.345	8.668	43.606	0.0791	1.200	H
ATOM	1022	HG12	VAL	133	59.990	9.770	43.606	0.0791	1.200	H
ATOM	1023	HG13	VAL	133	61.174	9.848	42.270	0.0791	1.200	H
ATOM	1024	CG2	VAL	133	63.354	10.331	43.827	-0.3192	1.700	C
ATOM	1025	HG21	VAL	133	63.592	9.276	43.969	0.0791	1.200	H
ATOM	1026	HG22	VAL	133	63.562	10.608	42.792	0.0791	1.200	H
ATOM	1027	HG23	VAL	133	64.002	10.910	44.486	0.0791	1.200	H
ATOM	1028	C	VAL	133	60.129	12.273	44.347	0.5973	1.700	C
ATOM	1029	O	VAL	133	59.918	12.461	45.552	-0.5679	1.500	O
ATOM	1030	N	ARG	134	59.178	12.320	43.414	-0.3479	1.550	N
ATOM	1031	H	ARG	134	59.418	12.186	42.445	0.2747	1.300	H
ATOM	1032	CA	ARG	134	57.769	12.513	43.755	-0.2637	1.700	C
ATOM	1033	HA	ARG	134	57.661	12.812	44.799	0.1560	1.200	H
ATOM	1034	CB	ARG	134	57.144	13.609	42.885	-0.0007	1.700	C
ATOM	1035	HB2	ARG	134	57.260	13.422	41.848	0.0327	1.200	H
ATOM	1036	HB3	ARG	134	56.088	13.582	43.089	0.0327	1.200	H
ATOM	1037	CG	ARG	134	57.536	15.017	43.310	0.0390	1.700	C
ATOM	1038	HG2	ARG	134	56.915	15.694	42.735	0.0285	1.200	H
ATOM	1039	HG3	ARG	134	57.317	15.151	44.362	0.0285	1.200	H
ATOM	1040	CD	ARG	134	59.013	15.229	43.126	0.0486	1.700	C
ATOM	1041	HD2	ARG	134	59.532	14.615	43.845	0.0687	1.200	H
ATOM	1042	HD3	ARG	134	59.321	14.964	42.114	0.0687	1.200	H
ATOM	1043	NE	ARG	134	59.480	16.568	43.462	-0.5295	1.550	N
ATOM	1044	HE	ARG	134	60.273	16.624	44.083	0.3456	1.300	H
ATOM	1045	CZ	ARG	134	59.027	17.693	42.912	0.8076	1.700	C
ATOM	1046	NH1	ARG	134	58.066	17.669	42.001	-0.8627	1.550	N
ATOM	1047	HH11	ARG	134	57.766	18.514	41.544	0.4478	1.300	H
ATOM	1048	HH12	ARG	134	57.677	16.784	41.714	0.4478	1.300	H
ATOM	1049	NH2	ARG	134	59.594	18.850	43.218	-0.8627	1.550	N
ATOM	1050	HH21	ARG	134	60.431	18.847	43.784	0.4478	1.300	H
ATOM	1051	HH22	ARG	134	59.316	19.686	42.732	0.4478	1.300	H
ATOM	1052	C	ARG	134	57.080	11.179	43.550	0.7341	1.700	C
ATOM	1053	O	ARG	134	57.033	10.663	42.437	-0.5894	1.500	O
ATOM	1054	N	TYR	135	56.585	10.603	44.632	-0.4157	1.550	N
ATOM	1055	H	TYR	135	56.668	11.055	45.528	0.2719	1.300	H
ATOM	1056	CA	TYR	135	55.959	9.293	44.567	-0.0014	1.700	C
ATOM	1057	HA	TYR	135	56.465	8.741	43.777	0.0876	1.200	H
ATOM	1058	CB	TYR	135	56.216	8.518	45.870	-0.0152	1.700	C
ATOM	1059	HB2	TYR	135	55.801	9.078	46.710	0.0295	1.200	H
ATOM	1060	HB3	TYR	135	55.699	7.558	45.827	0.0295	1.200	H
ATOM	1061	CG	TYR	135	57.692	8.256	46.111	-0.0011	1.700	C
ATOM	1062	CD1	TYR	135	58.375	7.295	45.379	-0.1906	1.700	C
ATOM	1063	HD1	TYR	135	57.840	6.708	44.649	0.1699	1.200	H
ATOM	1064	CE1	TYR	135	59.721	7.123	45.524	-0.2341	1.700	C
ATOM	1065	HE1	TYR	135	60.240	6.379	44.939	0.1656	1.200	H
ATOM	1066	CZ	TYR	135	60.411	7.913	46.410	0.3226	1.700	C
ATOM	1067	OH	TYR	135	61.774	7.771	46.537	-0.5579	1.500	O
ATOM	1068	HH	TYR	135	62.139	8.356	47.205	0.3992	1.200	H
ATOM	1069	CE2	TYR	135	59.764	8.860	47.153	-0.2341	1.700	C
ATOM	1070	HE2	TYR	135	60.311	9.483	47.845	0.1656	1.200	H

ATOM	1071	CD2	TYR	135	58.417	9.027	47.006	-0.1906	1.700	C
ATOM	1072	HD2	TYR	135	57.916	9.793	47.580	0.1699	1.200	H
ATOM	1073	C	TYR	135	54.484	9.363	44.279	0.5973	1.700	C
ATOM	1074	O	TYR	135	53.797	10.266	44.766	-0.5679	1.500	O
ATOM	1075	N	PRO	136	53.967	8.396	43.495	-0.2548	1.550	N
ATOM	1076	CD	PRO	136	54.722	7.288	42.890	0.0192	1.700	C
ATOM	1077	HD2	PRO	136	55.414	6.832	43.597	0.0391	1.200	H
ATOM	1078	HD3	PRO	136	55.259	7.667	42.033	0.0391	1.200	H
ATOM	1079	CG	PRO	136	53.631	6.311	42.576	0.0189	1.700	C
ATOM	1080	HG2	PRO	136	53.336	5.752	43.465	0.0213	1.200	H
ATOM	1081	HG3	PRO	136	53.949	5.619	41.805	0.0213	1.200	H
ATOM	1082	CB	PRO	136	52.549	7.179	42.097	-0.0070	1.700	C
ATOM	1083	HB2	PRO	136	51.588	6.673	42.024	0.0253	1.200	H
ATOM	1084	HB3	PRO	136	52.918	7.625	41.182	0.0253	1.200	H
ATOM	1085	CA	PRO	136	52.554	8.311	43.115	-0.0266	1.700	C
ATOM	1086	HA	PRO	136	52.228	9.237	42.640	0.0641	1.200	H
ATOM	1087	C	PRO	136	51.679	8.005	44.311	0.5896	1.700	C
ATOM	1088	O	PRO	136	52.010	7.140	45.110	-0.5748	1.500	O
ATOM	1089	N	LEU	137	50.584	8.745	44.451	-0.4157	1.550	N
ATOM	1090	H	LEU	137	50.369	9.460	43.772	0.2719	1.300	H
ATOM	1091	CA	LEU	137	49.678	8.560	45.570	-0.0518	1.700	C
ATOM	1092	HA	LEU	137	50.267	8.396	46.473	0.0922	1.200	H
ATOM	1093	CB	LEU	137	48.820	9.813	45.800	-0.1102	1.700	C
ATOM	1094	HB2	LEU	137	48.190	9.938	44.917	0.0457	1.200	H
ATOM	1095	HB3	LEU	137	48.141	9.515	46.602	0.0457	1.200	H
ATOM	1096	CG	LEU	137	49.347	11.207	46.156	0.3531	1.700	C
ATOM	1097	HG	LEU	137	49.640	11.764	45.272	-0.0361	1.200	H
ATOM	1098	CD1	LEU	137	48.207	11.908	46.842	-0.4121	1.700	C
ATOM	1099	HD11	LEU	137	48.499	12.929	47.092	0.1000	1.200	H
ATOM	1100	HD12	LEU	137	47.344	11.956	46.176	0.1000	1.200	H
ATOM	1101	HD13	LEU	137	47.922	11.393	47.761	0.1000	1.200	H
ATOM	1102	CD2	LEU	137	50.487	11.173	47.124	-0.4121	1.700	C
ATOM	1103	HD21	LEU	137	50.786	12.189	47.386	0.1000	1.200	H
ATOM	1104	HD22	LEU	137	50.210	10.633	48.031	0.1000	1.200	H
ATOM	1105	HD23	LEU	137	51.336	10.682	46.650	0.1000	1.200	H
ATOM	1106	C	LEU	137	48.764	7.356	45.392	0.5973	1.700	C
ATOM	1107	O	LEU	137	48.311	6.784	46.376	-0.5679	1.500	O
ATOM	1108	N	THR	138	48.437	7.014	44.148	-0.4157	1.550	N
ATOM	1109	H	THR	138	48.826	7.529	43.372	0.2719	1.300	H
ATOM	1110	CA	THR	138	47.568	5.862	43.859	-0.0389	1.700	C
ATOM	1111	HA	THR	138	46.773	5.798	44.604	0.1007	1.200	H
ATOM	1112	CB	THR	138	46.914	5.979	42.442	0.3654	1.700	C
ATOM	1113	HB	THR	138	47.690	6.123	41.689	0.0043	1.200	H
ATOM	1114	CG2	THR	138	46.113	4.746	42.087	-0.2438	1.700	C
ATOM	1115	HG21	THR	138	45.582	4.917	41.151	0.0642	1.200	H
ATOM	1116	HG22	THR	138	46.772	3.890	41.947	0.0642	1.200	H
ATOM	1117	HG23	THR	138	45.390	4.525	42.873	0.0642	1.200	H
ATOM	1118	OG1	THR	138	46.036	7.102	42.416	-0.6761	1.500	O
ATOM	1119	HG1	THR	138	46.553	7.909	42.344	0.4102	1.200	H
ATOM	1120	C	THR	138	48.426	4.604	43.907	0.5973	1.700	C
ATOM	1121	O	THR	138	49.355	4.462	43.127	-0.5679	1.500	O
ATOM	1122	N	PHE	139	48.137	3.709	44.838	-0.4157	1.550	N
ATOM	1123	H	PHE	139	47.363	3.858	45.468	0.2719	1.300	H
ATOM	1124	CA	PHE	139	48.914	2.479	44.962	-0.0024	1.700	C
ATOM	1125	HA	PHE	139	49.965	2.758	44.995	0.0978	1.200	H
ATOM	1126	CB	PHE	139	48.512	1.711	46.227	-0.0343	1.700	C
ATOM	1127	HB2	PHE	139	48.550	2.389	47.078	0.0295	1.200	H
ATOM	1128	HB3	PHE	139	47.480	1.370	46.125	0.0295	1.200	H
ATOM	1129	CG	PHE	139	49.402	0.535	46.541	0.0118	1.700	C
ATOM	1130	CD1	PHE	139	50.771	0.588	46.292	-0.1256	1.700	C
ATOM	1131	HD1	PHE	139	51.231	1.466	45.871	0.1330	1.200	H
ATOM	1132	CE1	PHE	139	51.602	-0.467	46.646	-0.1704	1.700	C
ATOM	1133	HE1	PHE	139	52.663	-0.406	46.497	0.1430	1.200	H
ATOM	1134	CZ	PHE	139	51.071	-1.582	47.247	-0.1072	1.700	C
ATOM	1135	HZ	PHE	139	51.716	-2.398	47.538	0.1297	1.200	H
ATOM	1136	CE2	PHE	139	49.709	-1.658	47.496	-0.1704	1.700	C
ATOM	1137	HE2	PHE	139	49.296	-2.539	47.965	0.1430	1.200	H
ATOM	1138	CD2	PHE	139	48.880	-0.607	47.145	-0.1256	1.700	C
ATOM	1139	HD2	PHE	139	47.823	-0.671	47.360	0.1330	1.200	H
ATOM	1140	C	PHE	139	48.614	1.666	43.725	0.5973	1.700	C
ATOM	1141	O	PHE	139	47.454	1.528	43.349	-0.5679	1.500	O
ATOM	1142	N	GLY	140	49.666	1.223	43.050	-0.4157	1.550	N
ATOM	1143	H	GLY	140	50.600	1.395	43.394	0.2719	1.300	H
ATOM	1144	CA	GLY	140	49.511	0.446	41.843	-0.0252	1.700	C
ATOM	1145	HA2	GLY	140	50.005	-0.515	41.989	0.0698	1.200	H
ATOM	1146	HA3	GLY	140	48.467	0.256	41.608	0.0698	1.200	H
ATOM	1147	C	GLY	140	50.185	1.168	40.703	0.5973	1.700	C

ATOM	1148	O	GLY	140	50.745	0.547	39.814	-0.5679	1.500	O
ATOM	1149	N	TRP	141	50.145	2.493	40.725	-0.4157	1.550	N
ATOM	1150	H	TRP	141	49.691	2.975	41.488	0.2719	1.300	H
ATOM	1151	CA	TRP	141	50.765	3.296	39.669	-0.0275	1.700	C
ATOM	1152	HA	TRP	141	50.481	2.891	38.698	0.1123	1.200	H
ATOM	1153	CB	TRP	141	50.284	4.749	39.766	-0.0050	1.700	C
ATOM	1154	HB2	TRP	141	49.202	4.766	39.629	0.0339	1.200	H
ATOM	1155	HB3	TRP	141	50.492	5.125	40.766	0.0339	1.200	H
ATOM	1156	CG	TRP	141	50.888	5.675	38.770	-0.1415	1.700	C
ATOM	1157	CD1	TRP	141	51.576	6.819	39.044	-0.1638	1.700	C
ATOM	1158	HD1	TRP	141	51.526	7.306	39.976	0.2062	1.200	H
ATOM	1159	NE1	TRP	141	51.953	7.428	37.864	-0.3418	1.550	N
ATOM	1160	HE1	TRP	141	52.441	8.306	37.821	0.3412	1.300	H
ATOM	1161	CE2	TRP	141	51.504	6.683	36.802	0.1380	1.700	C
ATOM	1162	CZ2	TRP	141	51.630	6.901	35.422	-0.2601	1.700	C
ATOM	1163	HZ2	TRP	141	52.154	7.766	35.040	0.1572	1.200	H
ATOM	1164	CH2	TRP	141	51.066	5.982	34.571	-0.1134	1.700	C
ATOM	1165	HH2	TRP	141	51.168	6.153	33.516	0.1417	1.200	H
ATOM	1166	CZ3	TRP	141	50.391	4.867	35.063	-0.1972	1.700	C
ATOM	1167	HZ3	TRP	141	49.953	4.161	34.374	0.1447	1.200	H
ATOM	1168	CE3	TRP	141	50.263	4.645	36.444	-0.2387	1.700	C
ATOM	1169	HE3	TRP	141	49.729	3.780	36.808	0.1700	1.200	H
ATOM	1170	CD2	TRP	141	50.829	5.568	37.330	0.1243	1.700	C
ATOM	1171	C	TRP	141	52.276	3.192	39.851	0.5973	1.700	C
ATOM	1172	O	TRP	141	52.837	3.669	40.846	-0.5679	1.500	O
ATOM	1173	N	CYS	142	52.922	2.539	38.894	-0.4157	1.550	N
ATOM	1174	H	CYS	142	52.418	2.163	38.106	0.2719	1.300	H
ATOM	1175	CA	CYS	142	54.350	2.313	38.959	0.0213	1.700	C
ATOM	1176	HA	CYS	142	54.637	2.275	40.006	0.1124	1.200	H
ATOM	1177	CB	CYS	142	54.683	0.947	38.369	-0.1231	1.700	C
ATOM	1178	HB2	CYS	142	54.466	0.959	37.303	0.1112	1.200	H
ATOM	1179	HB3	CYS	142	55.747	0.742	38.500	0.1112	1.200	H
ATOM	1180	SG	CYS	142	53.777	-0.384	39.120	-0.3119	1.800	S
ATOM	1181	HG	CYS	142	52.548	0.143	38.934	0.1933	1.200	H
ATOM	1182	C	CYS	142	55.222	3.367	38.313	0.5973	1.700	C
ATOM	1183	O	CYS	142	56.186	3.032	37.623	-0.5679	1.500	O
ATOM	1184	N	TYR	143	54.887	4.635	38.504	-0.4157	1.550	N
ATOM	1185	H	TYR	143	54.082	4.874	39.067	0.2719	1.300	H
ATOM	1186	CA	TYR	143	55.709	5.715	37.981	-0.0014	1.700	C
ATOM	1187	HA	TYR	143	56.692	5.340	37.706	0.0876	1.200	H
ATOM	1188	CB	TYR	143	55.099	6.376	36.754	-0.0152	1.700	C
ATOM	1189	HB2	TYR	143	54.037	6.470	36.895	0.0295	1.200	H
ATOM	1190	HB3	TYR	143	55.509	7.381	36.655	0.0295	1.200	H
ATOM	1191	CG	TYR	143	55.362	5.643	35.469	-0.0011	1.700	C
ATOM	1192	CD1	TYR	143	56.516	5.872	34.741	-0.1906	1.700	C
ATOM	1193	HD1	TYR	143	57.245	6.582	35.102	0.1699	1.200	H
ATOM	1194	CE1	TYR	143	56.751	5.205	33.538	-0.2341	1.700	C
ATOM	1195	HE1	TYR	143	57.661	5.388	32.985	0.1656	1.200	H
ATOM	1196	CZ	TYR	143	55.811	4.310	33.065	0.3226	1.700	C
ATOM	1197	OH	TYR	143	56.015	3.647	31.871	-0.5579	1.500	O
ATOM	1198	HH	TYR	143	56.842	3.893	31.452	0.3992	1.200	H
ATOM	1199	CE2	TYR	143	54.661	4.074	33.774	-0.2341	1.700	C
ATOM	1200	HE2	TYR	143	53.932	3.366	33.406	0.1656	1.200	H
ATOM	1201	CD2	TYR	143	54.446	4.736	34.968	-0.1906	1.700	C
ATOM	1202	HD2	TYR	143	53.533	4.543	35.513	0.1699	1.200	H
ATOM	1203	C	TYR	143	55.900	6.742	39.068	0.5973	1.700	C
ATOM	1204	O	TYR	143	55.055	6.918	39.953	-0.5679	1.500	O
ATOM	1205	N	LYS	144	57.076	7.342	39.060	-0.3479	1.550	N
ATOM	1206	H	LYS	144	57.746	7.118	38.335	0.2747	1.300	H
ATOM	1207	CA	LYS	144	57.418	8.379	40.008	-0.2400	1.700	C
ATOM	1208	HA	LYS	144	56.529	8.821	40.462	0.1426	1.200	H
ATOM	1209	CB	LYS	144	58.337	7.825	41.081	-0.0094	1.700	C
ATOM	1210	HB2	LYS	144	58.656	8.636	41.737	0.0362	1.200	H
ATOM	1211	HB3	LYS	144	57.769	7.115	41.683	0.0362	1.200	H
ATOM	1212	CG	LYS	144	59.558	7.136	40.514	0.0187	1.700	C
ATOM	1213	HG2	LYS	144	59.248	6.313	39.876	0.0103	1.200	H
ATOM	1214	HG3	LYS	144	60.155	7.837	39.940	0.0103	1.200	H
ATOM	1215	CD	LYS	144	60.395	6.540	41.610	-0.0479	1.700	C
ATOM	1216	HD2	LYS	144	60.797	7.326	42.220	0.0621	1.200	H
ATOM	1217	HD3	LYS	144	59.792	5.873	42.227	0.0621	1.200	H
ATOM	1218	CE	LYS	144	61.538	5.764	41.005	-0.0143	1.700	C
ATOM	1219	HE2	LYS	144	61.165	5.032	40.313	0.1135	1.200	H
ATOM	1220	HE3	LYS	144	62.131	6.464	40.414	0.1135	1.200	H
ATOM	1221	NZ	LYS	144	62.410	5.210	42.059	-0.3854	1.550	N
ATOM	1222	HZ1	LYS	144	62.712	5.947	42.680	0.3400	1.300	H
ATOM	1223	HZ2	LYS	144	61.894	4.515	42.587	0.3400	1.300	H
ATOM	1224	HZ3	LYS	144	63.217	4.769	41.641	0.3400	1.300	H

ATOM	1225	C	LYS	144	58.140	9.433	39.192	0.7341	1.700	C
ATOM	1226	O	LYS	144	58.546	9.195	38.033	-0.5894	1.500	O
ATOM	1227	N	LEU	145	58.240	10.622	39.762	-0.4157	1.550	N
ATOM	1228	H	LEU	145	57.864	10.778	40.686	0.2719	1.300	H
ATOM	1229	CA	LEU	145	58.920	11.712	39.088	-0.0518	1.700	C
ATOM	1230	HA	LEU	145	59.026	11.456	38.071	0.0922	1.200	H
ATOM	1231	CB	LEU	145	58.071	12.980	39.157	-0.1102	1.700	C
ATOM	1232	HB2	LEU	145	58.055	13.393	40.137	0.0457	1.200	H
ATOM	1233	HB3	LEU	145	58.565	13.725	38.549	0.0457	1.200	H
ATOM	1234	CG	LEU	145	56.685	12.761	38.535	0.3531	1.700	C
ATOM	1235	HG	LEU	145	56.121	12.045	39.134	-0.0361	1.200	H
ATOM	1236	CD1	LEU	145	55.902	14.057	38.541	-0.4121	1.700	C
ATOM	1237	HD11	LEU	145	54.943	13.919	38.042	0.1000	1.200	H
ATOM	1238	HD12	LEU	145	55.719	14.369	39.570	0.1000	1.200	H
ATOM	1239	HD13	LEU	145	56.476	14.831	38.035	0.1000	1.200	H
ATOM	1240	CD2	LEU	145	56.825	12.207	37.136	-0.4121	1.700	C
ATOM	1241	HD21	LEU	145	55.870	12.285	36.616	0.1000	1.200	H
ATOM	1242	HD22	LEU	145	57.572	12.764	36.570	0.1000	1.200	H
ATOM	1243	HD23	LEU	145	57.079	11.151	37.155	0.1000	1.200	H
ATOM	1244	C	LEU	145	60.283	11.869	39.747	0.5973	1.700	C
ATOM	1245	O	LEU	145	60.398	12.056	40.962	-0.5679	1.500	O
ATOM	1246	N	VAL	146	61.313	11.710	38.929	-0.4157	1.550	N
ATOM	1247	H	VAL	146	61.144	11.544	37.946	0.2719	1.300	H
ATOM	1248	CA	VAL	146	62.704	11.768	39.369	-0.0875	1.700	C
ATOM	1249	HA	VAL	146	62.725	11.769	40.453	0.0969	1.200	H
ATOM	1250	CB	VAL	146	63.424	10.462	38.955	0.2985	1.700	C
ATOM	1251	HB	VAL	146	63.330	10.349	37.875	-0.0297	1.200	H
ATOM	1252	CG1	VAL	146	64.882	10.530	39.287	-0.3192	1.700	C
ATOM	1253	HG11	VAL	146	65.348	9.563	39.095	0.0791	1.200	H
ATOM	1254	HG12	VAL	146	65.393	11.263	38.660	0.0791	1.200	H
ATOM	1255	HG13	VAL	146	65.023	10.786	40.338	0.0791	1.200	H
ATOM	1256	CG2	VAL	146	62.773	9.272	39.631	-0.3192	1.700	C
ATOM	1257	HG21	VAL	146	63.300	8.353	39.381	0.0791	1.200	H
ATOM	1258	HG22	VAL	146	62.813	9.396	40.712	0.0791	1.200	H
ATOM	1259	HG23	VAL	146	61.738	9.187	39.318	0.0791	1.200	H
ATOM	1260	C	VAL	146	63.459	12.955	38.764	0.5973	1.700	C
ATOM	1261	O	VAL	146	63.488	13.123	37.529	-0.5679	1.500	O
ATOM	1262	N	PRO	147	64.040	13.811	39.629	-0.2548	1.550	N
ATOM	1263	CD	PRO	147	63.744	13.786	41.070	0.0192	1.700	C
ATOM	1264	HD2	PRO	147	64.278	12.967	41.552	0.0391	1.200	H
ATOM	1265	HD3	PRO	147	62.673	13.727	41.246	0.0391	1.200	H
ATOM	1266	CG	PRO	147	64.298	15.126	41.539	0.0189	1.700	C
ATOM	1267	HG2	PRO	147	64.645	15.068	42.568	0.0213	1.200	H
ATOM	1268	HG3	PRO	147	63.554	15.912	41.440	0.0213	1.200	H
ATOM	1269	CB	PRO	147	65.429	15.379	40.633	-0.0070	1.700	C
ATOM	1270	HB2	PRO	147	66.263	14.718	40.876	0.0253	1.200	H
ATOM	1271	HB3	PRO	147	65.743	16.423	40.657	0.0253	1.200	H
ATOM	1272	CA	PRO	147	64.817	15.010	39.302	-0.0266	1.700	C
ATOM	1273	HA	PRO	147	64.173	15.819	39.011	0.0641	1.200	H
ATOM	1274	C	PRO	147	65.879	14.837	38.224	0.5896	1.700	C
ATOM	1275	O	PRO	147	66.702	13.913	38.271	-0.5748	1.500	O
ATOM	1276	N	VAL	148	65.880	15.806	37.312	-0.3821	1.550	N
ATOM	1277	H	VAL	148	65.307	16.608	37.477	0.2681	1.300	H
ATOM	1278	CA	VAL	148	66.768	15.879	36.170	-0.3438	1.700	C
ATOM	1279	HA	VAL	148	66.607	16.838	35.680	0.1438	1.200	H
ATOM	1280	CB	VAL	148	68.246	15.797	36.596	0.1940	1.700	C
ATOM	1281	HB	VAL	148	68.462	14.967	37.257	0.0308	1.200	H
ATOM	1282	CG1	VAL	148	69.148	15.603	35.391	-0.3064	1.700	C
ATOM	1283	HG11	VAL	148	70.156	15.944	35.629	0.0836	1.200	H
ATOM	1284	HG12	VAL	148	69.245	14.554	35.120	0.0836	1.200	H
ATOM	1285	HG13	VAL	148	68.786	16.181	34.539	0.0836	1.200	H
ATOM	1286	CG2	VAL	148	68.631	17.082	37.320	-0.3064	1.700	C
ATOM	1287	HG21	VAL	148	69.674	17.033	37.634	0.0836	1.200	H
ATOM	1288	HG22	VAL	148	68.495	17.940	36.660	0.0836	1.200	H
ATOM	1289	HG23	VAL	148	68.014	17.210	38.210	0.0836	1.200	H
ATOM	1290	C	VAL	148	66.405	14.819	35.155	0.8350	1.700	C
ATOM	1291	O	VAL	148	65.508	15.040	34.342	-0.8173	1.500	O
ATOM	1292	OXT	VAL	148	67.036	13.766	35.100	-0.8173	1.500	O
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ATOM	1293	N	ARG	178	62.227	25.520	38.714	0.1305	1.550	N
ATOM	1294	H1	ARG	178	61.514	25.024	38.198	0.2083	1.300	H
ATOM	1295	H2	ARG	178	63.018	25.675	38.104	0.2083	1.300	H
ATOM	1296	H3	ARG	178	61.863	26.409	39.027	0.2083	1.300	H
ATOM	1297	CA	ARG	178	62.650	24.722	39.862	-0.0223	1.700	C
ATOM	1298	HA	ARG	178	63.446	25.253	40.385	0.1242	1.200	H
ATOM	1299	CB	ARG	178	61.471	24.520	40.826	0.0118	1.700	C
ATOM	1300	HB2	ARG	178	61.125	25.494	41.176	0.0226	1.200	H

ATOM	1301	HB3	ARG	178	60.651	24.014	40.312	0.0226	1.200	H
ATOM	1302	CG	ARG	178	61.927	23.685	42.018	0.0236	1.700	C
ATOM	1303	HG2	ARG	178	62.123	22.639	42.103	0.0309	1.200	H
ATOM	1304	HG3	ARG	178	62.724	24.222	42.538	0.0309	1.200	H
ATOM	1305	CD	ARG	178	60.756	23.485	42.975	0.0935	1.700	C
ATOM	1306	HD2	ARG	178	60.399	24.459	43.314	0.0527	1.200	H
ATOM	1307	HD3	ARG	178	59.946	22.972	42.451	0.0527	1.200	H
ATOM	1308	NE	ARG	178	61.162	22.677	44.147	-0.5650	1.550	N
ATOM	1309	HE	ARG	178	62.118	22.353	44.192	0.3592	1.300	H
ATOM	1310	CZ	ARG	178	60.326	22.359	45.132	0.8281	1.700	C
ATOM	1311	NH1	ARG	178	59.054	22.748	45.130	-0.8693	1.550	N
ATOM	1312	HH11	ARG	178	58.697	23.313	44.376	0.4494	1.300	H
ATOM	1313	HH12	ARG	178	58.452	22.496	45.899	0.4494	1.300	H
ATOM	1314	NH2	ARG	178	60.797	21.628	46.138	-0.8693	1.550	N
ATOM	1315	HH21	ARG	178	60.193	21.375	46.907	0.4494	1.300	H
ATOM	1316	HH22	ARG	178	61.786	21.465	46.202	0.4494	1.300	H
ATOM	1317	C	ARG	178	63.203	23.374	39.389	0.7214	1.700	C
ATOM	1318	O	ARG	178	63.796	23.280	38.305	-0.6013	1.500	O
ATOM	1319	N	GLU	179	62.984	22.340	40.198	-0.5163	1.550	N
ATOM	1320	H	GLU	179	62.133	22.359	40.716	0.2936	1.300	H
ATOM	1321	CA	GLU	179	63.443	20.982	39.921	0.0397	1.700	C
ATOM	1322	HA	GLU	179	64.526	21.001	39.782	0.1105	1.200	H
ATOM	1323	CB	GLU	179	63.105	20.099	41.125	0.0560	1.700	C
ATOM	1324	HB2	GLU	179	63.008	20.729	42.007	-0.0173	1.200	H
ATOM	1325	HB3	GLU	179	62.138	19.617	40.971	-0.0173	1.200	H
ATOM	1326	CG	GLU	179	64.141	19.054	41.518	0.0136	1.700	C
ATOM	1327	HG2	GLU	179	64.216	18.316	40.718	-0.0425	1.200	H
ATOM	1328	HG3	GLU	179	65.110	19.543	41.634	-0.0425	1.200	H
ATOM	1329	CD	GLU	179	63.775	18.350	42.827	0.8054	1.700	C
ATOM	1330	OE1	GLU	179	62.570	18.290	43.159	-0.8188	1.500	O
ATOM	1331	OE2	GLU	179	64.686	17.864	43.533	-0.8188	1.500	O
ATOM	1332	C	GLU	179	62.765	20.427	38.670	0.5366	1.700	C
ATOM	1333	O	GLU	179	61.534	20.448	38.569	-0.5819	1.500	O
ATOM	1334	N	VAL	180	63.582	19.990	37.709	-0.4157	1.550	N
ATOM	1335	H	VAL	180	64.580	20.012	37.861	0.2719	1.300	H
ATOM	1336	CA	VAL	180	63.117	19.395	36.451	-0.0875	1.700	C
ATOM	1337	HA	VAL	180	62.178	19.853	36.135	0.0969	1.200	H
ATOM	1338	CB	VAL	180	64.171	19.543	35.341	0.2985	1.700	C
ATOM	1339	HB	VAL	180	65.096	19.053	35.651	-0.0297	1.200	H
ATOM	1340	CG1	VAL	180	63.689	18.884	34.061	-0.3192	1.700	C
ATOM	1341	HG11	VAL	180	64.399	19.080	33.257	0.0791	1.200	H
ATOM	1342	HG12	VAL	180	63.625	17.802	34.186	0.0791	1.200	H
ATOM	1343	HG13	VAL	180	62.712	19.275	33.775	0.0791	1.200	H
ATOM	1344	CG2	VAL	180	64.482	21.016	35.108	-0.3192	1.700	C
ATOM	1345	HG21	VAL	180	64.915	21.467	36.001	0.0791	1.200	H
ATOM	1346	HG22	VAL	180	65.206	21.111	34.298	0.0791	1.200	H
ATOM	1347	HG23	VAL	180	63.572	21.552	34.836	0.0791	1.200	H
ATOM	1348	C	VAL	180	62.919	17.911	36.733	0.5973	1.700	C
ATOM	1349	O	VAL	180	63.813	17.264	37.256	-0.5679	1.500	O
ATOM	1350	N	LEU	181	61.768	17.360	36.366	-0.4157	1.550	N
ATOM	1351	H	LEU	181	61.070	17.908	35.886	0.2719	1.300	H
ATOM	1352	CA	LEU	181	61.482	15.959	36.652	-0.0518	1.700	C
ATOM	1353	HA	LEU	181	62.329	15.487	37.149	0.0922	1.200	H
ATOM	1354	CB	LEU	181	60.290	15.883	37.592	-0.1102	1.700	C
ATOM	1355	HB2	LEU	181	59.424	16.242	37.039	0.0457	1.200	H
ATOM	1356	HB3	LEU	181	60.134	14.839	37.840	0.0457	1.200	H
ATOM	1357	CG	LEU	181	60.461	16.680	38.870	0.3531	1.700	C
ATOM	1358	HD	LEU	181	60.880	17.664	38.665	-0.0361	1.200	H
ATOM	1359	CD1	LEU	181	59.126	16.894	39.465	-0.4121	1.700	C
ATOM	1360	HD11	LEU	181	59.216	17.840	39.983	0.1000	1.200	H
ATOM	1361	HD12	LEU	181	58.356	17.039	38.706	0.1000	1.200	H
ATOM	1362	HD13	LEU	181	58.839	16.061	40.106	0.1000	1.200	H
ATOM	1363	CD2	LEU	181	61.355	15.959	39.833	-0.4121	1.700	C
ATOM	1364	HD21	LEU	181	62.301	15.830	39.359	0.1000	1.200	H
ATOM	1365	HD22	LEU	181	61.474	16.553	40.740	0.1000	1.200	H
ATOM	1366	HD23	LEU	181	60.947	14.980	40.088	0.1000	1.200	H
ATOM	1367	C	LEU	181	61.183	15.122	35.427	0.5973	1.700	C
ATOM	1368	O	LEU	181	60.878	15.653	34.358	-0.5679	1.500	O
ATOM	1369	N	GLU	182	61.267	13.804	35.601	-0.5163	1.550	N
ATOM	1370	H	GLU	182	61.587	13.440	36.487	0.2936	1.300	H
ATOM	1371	CA	GLU	182	60.967	12.840	34.540	0.0397	1.700	C
ATOM	1372	HA	GLU	182	60.424	13.333	33.744	0.1105	1.200	H
ATOM	1373	CB	GLU	182	62.222	12.169	34.004	0.0560	1.700	C
ATOM	1374	HB2	GLU	182	62.685	11.679	34.862	-0.0173	1.200	H
ATOM	1375	HB3	GLU	182	61.925	11.380	33.317	-0.0173	1.200	H
ATOM	1376	CG	GLU	182	63.217	13.008	33.312	0.0136	1.700	C
ATOM	1377	HG2	GLU	182	62.811	13.379	32.386	-0.0425	1.200	H

ATOM	1378	HG3	GLU	182	63.413	13.877	33.933	-0.0425	1.200	H
ATOM	1379	CD	GLU	182	64.481	12.227	33.149	0.8054	1.700	C
ATOM	1380	OE1	GLU	182	64.990	11.763	34.190	-0.8188	1.500	O
ATOM	1381	OE2	GLU	182	64.942	12.030	32.005	-0.8188	1.500	O
ATOM	1382	C	GLU	182	60.139	11.709	35.114	0.5366	1.700	C
ATOM	1383	O	GLU	182	60.171	11.441	36.321	-0.5819	1.500	O
ATOM	1384	N	TRP	183	59.459	11.014	34.216	-0.4157	1.550	N
ATOM	1385	H	TRP	183	59.525	11.271	33.240	0.2719	1.300	H
ATOM	1386	CA	TRP	183	58.654	9.856	34.561	-0.0275	1.700	C
ATOM	1387	HA	TRP	183	58.176	9.988	35.531	0.1123	1.200	H
ATOM	1388	CB	TRP	183	57.590	9.621	33.491	-0.0050	1.700	C
ATOM	1389	HB2	TRP	183	57.965	10.051	32.579	0.0339	1.200	H
ATOM	1390	HB3	TRP	183	57.405	8.554	33.368	0.0339	1.200	H
ATOM	1391	CG	TRP	183	56.298	10.308	33.722	-0.1415	1.700	C
ATOM	1392	CD1	TRP	183	55.358	9.988	34.660	-0.1638	1.700	C
ATOM	1393	HD1	TRP	183	55.470	9.214	35.404	0.2062	1.200	H
ATOM	1394	NE1	TRP	183	54.227	10.733	34.464	-0.3418	1.550	N
ATOM	1395	HE1	TRP	183	53.380	10.643	35.008	0.3412	1.300	H
ATOM	1396	CE2	TRP	183	54.422	11.572	33.397	0.1380	1.700	C
ATOM	1397	CZ2	TRP	183	53.567	12.512	32.821	-0.2601	1.700	C
ATOM	1398	HZ2	TRP	183	52.572	12.657	33.207	0.1572	1.200	H
ATOM	1399	CH2	TRP	183	54.030	13.218	31.742	-0.1134	1.700	C
ATOM	1400	HH2	TRP	183	53.384	13.939	31.267	0.1417	1.200	H
ATOM	1401	CZ3	TRP	183	55.313	13.013	31.235	-0.1972	1.700	C
ATOM	1402	HZ3	TRP	183	55.654	13.608	30.402	0.1447	1.200	H
ATOM	1403	CE3	TRP	183	56.170	12.077	31.810	-0.2387	1.700	C
ATOM	1404	HE3	TRP	183	57.172	11.946	31.441	0.1700	1.200	H
ATOM	1405	CD2	TRP	183	55.720	11.338	32.911	0.1243	1.700	C
ATOM	1406	C	TRP	183	59.594	8.638	34.600	0.5973	1.700	C
ATOM	1407	O	TRP	183	60.215	8.285	33.579	-0.5679	1.500	O
ATOM	1408	N	ARG	184	59.693	8.003	35.767	-0.3479	1.550	N
ATOM	1409	H	ARG	184	59.176	8.347	36.561	0.2747	1.300	H
ATOM	1410	CA	ARG	184	60.538	6.827	35.953	-0.2637	1.700	C
ATOM	1411	HA	ARG	184	60.997	6.543	35.009	0.1560	1.200	H
ATOM	1412	CB	ARG	184	61.625	7.132	36.972	-0.0007	1.700	C
ATOM	1413	HB2	ARG	184	61.181	7.700	37.786	0.0327	1.200	H
ATOM	1414	HB3	ARG	184	62.007	6.201	37.396	0.0327	1.200	H
ATOM	1415	CG	ARG	184	62.770	7.902	36.401	0.0390	1.700	C
ATOM	1416	HG2	ARG	184	62.394	8.753	35.829	0.0285	1.200	H
ATOM	1417	HG3	ARG	184	63.406	8.260	37.199	0.0285	1.200	H
ATOM	1418	CD	ARG	184	63.608	6.987	35.548	0.0486	1.700	C
ATOM	1419	HD2	ARG	184	64.463	6.638	36.128	0.0687	1.200	H
ATOM	1420	HD3	ARG	184	63.043	6.106	35.245	0.0687	1.200	H
ATOM	1421	NE	ARG	184	64.079	7.641	34.331	-0.5295	1.550	N
ATOM	1422	HE	ARG	184	63.765	7.256	33.453	0.3456	1.300	H
ATOM	1423	CZ	ARG	184	64.884	8.701	34.306	0.8076	1.700	C
ATOM	1424	NH1	ARG	184	65.316	9.249	35.444	-0.8627	1.550	N
ATOM	1425	HH11	ARG	184	65.832	10.122	35.389	0.4478	1.300	H
ATOM	1426	HH12	ARG	184	64.984	8.909	36.332	0.4478	1.300	H
ATOM	1427	NH2	ARG	184	65.284	9.194	33.133	-0.8627	1.550	N
ATOM	1428	HH21	ARG	184	65.778	10.081	33.114	0.4478	1.300	H
ATOM	1429	HH22	ARG	184	64.955	8.792	32.268	0.4478	1.300	H
ATOM	1430	C	ARG	184	59.715	5.655	36.442	0.7341	1.700	C
ATOM	1431	O	ARG	184	59.072	5.730	37.482	-0.5894	1.500	O
ATOM	1432	N	PHE	185	59.718	4.574	35.685	-0.4157	1.550	N
ATOM	1433	H	PHE	185	60.253	4.563	34.826	0.2719	1.300	H
ATOM	1434	CA	PHE	185	58.975	3.386	36.067	-0.0024	1.700	C
ATOM	1435	HA	PHE	185	57.971	3.683	36.344	0.0978	1.200	H
ATOM	1436	CB	PHE	185	58.905	2.421	34.890	-0.0343	1.700	C
ATOM	1437	HB2	PHE	185	58.486	2.953	34.036	0.0295	1.200	H
ATOM	1438	HB3	PHE	185	59.910	2.101	34.608	0.0295	1.200	H
ATOM	1439	CG	PHE	185	58.049	1.214	35.146	0.0118	1.700	C
ATOM	1440	CD1	PHE	185	58.579	0.079	35.737	-0.1256	1.700	C
ATOM	1441	HD1	PHE	185	59.626	0.044	36.003	0.1330	1.200	H
ATOM	1442	CE1	PHE	185	57.781	-1.027	35.977	-0.1704	1.700	C
ATOM	1443	HE1	PHE	185	58.196	-1.923	36.400	0.1430	1.200	H
ATOM	1444	CZ	PHE	185	56.444	-1.005	35.625	-0.1072	1.700	C
ATOM	1445	HZ	PHE	185	55.824	-1.871	35.803	0.1297	1.200	H
ATOM	1446	CE2	PHE	185	55.911	0.114	35.039	-0.1704	1.700	C
ATOM	1447	HE2	PHE	185	54.885	0.111	34.714	0.1430	1.200	H
ATOM	1448	CD2	PHE	185	56.707	1.216	34.801	-0.1256	1.700	C
ATOM	1449	HD2	PHE	185	56.274	2.082	34.336	0.1330	1.200	H
ATOM	1450	C	PHE	185	59.693	2.702	37.205	0.5973	1.700	C
ATOM	1451	O	PHE	185	60.858	2.376	37.075	-0.5679	1.500	O
ATOM	1452	N	ASP	186	59.031	2.529	38.335	-0.5163	1.550	N
ATOM	1453	H	ASP	186	58.063	2.809	38.409	0.2936	1.300	H
ATOM	1454	CA	ASP	186	59.651	1.832	39.448	0.0381	1.700	C

ATOM	1455	HA	ASP	186	60.571	1.343	39.124	0.0880	1.200	H
ATOM	1456	CB	ASP	186	60.027	2.758	40.600	-0.0303	1.700	C
ATOM	1457	HB2	ASP	186	60.797	3.366	40.162	-0.0122	1.200	H
ATOM	1458	HB3	ASP	186	59.192	3.362	40.933	-0.0122	1.200	H
ATOM	1459	CG	ASP	186	60.701	2.011	41.767	0.7994	1.700	C
ATOM	1460	OD1	ASP	186	61.082	0.834	41.598	-0.8014	1.500	O
ATOM	1461	OD2	ASP	186	60.839	2.595	42.873	-0.8014	1.500	O
ATOM	1462	C	ASP	186	58.717	0.736	39.922	0.5366	1.700	C
ATOM	1463	O	ASP	186	57.872	0.928	40.796	-0.5819	1.500	O
ATOM	1464	N	SER	187	58.867	-0.404	39.269	-0.4157	1.550	N
ATOM	1465	H	SER	187	59.566	-0.432	38.542	0.2719	1.300	H
ATOM	1466	CA	SER	187	58.153	-1.648	39.513	-0.0249	1.700	C
ATOM	1467	HA	SER	187	57.244	-1.641	38.910	0.0843	1.200	H
ATOM	1468	CB	SER	187	59.078	-2.743	38.982	0.2117	1.700	C
ATOM	1469	HB2	SER	187	59.330	-2.567	37.940	0.0352	1.200	H
ATOM	1470	HB3	SER	187	60.010	-2.713	39.549	0.0352	1.200	H
ATOM	1471	OG	SER	187	58.541	-4.028	39.115	-0.6546	1.500	O
ATOM	1472	HG	SER	187	58.356	-4.195	40.043	0.4275	1.200	H
ATOM	1473	C	SER	187	57.757	-1.951	40.971	0.5973	1.700	C
ATOM	1474	O	SER	187	56.695	-2.503	41.232	-0.5679	1.500	O
ATOM	1475	N	ARG	188	58.591	-1.588	41.938	-0.3479	1.550	N
ATOM	1476	H	ARG	188	59.440	-1.081	41.729	0.2747	1.300	H
ATOM	1477	CA	ARG	188	58.262	-1.905	43.320	-0.2637	1.700	C
ATOM	1478	HA	ARG	188	57.879	-2.906	43.311	0.1560	1.200	H
ATOM	1479	CB	ARG	188	59.516	-1.974	44.168	-0.0007	1.700	C
ATOM	1480	HB2	ARG	188	59.261	-2.424	45.130	0.0327	1.200	H
ATOM	1481	HB3	ARG	188	60.204	-2.655	43.665	0.0327	1.200	H
ATOM	1482	CG	ARG	188	60.161	-0.669	44.413	0.0390	1.700	C
ATOM	1483	HG2	ARG	188	60.284	-0.126	43.498	0.0285	1.200	H
ATOM	1484	HG3	ARG	188	59.533	-0.076	45.080	0.0285	1.200	H
ATOM	1485	CD	ARG	188	61.493	-0.901	45.089	0.0486	1.700	C
ATOM	1486	HD2	ARG	188	61.853	0.046	45.490	0.0687	1.200	H
ATOM	1487	HD3	ARG	188	61.360	-1.580	45.933	0.0687	1.200	H
ATOM	1488	NE	ARG	188	62.425	-1.490	44.143	-0.5295	1.550	N
ATOM	1489	HE	ARG	188	62.267	-2.449	43.873	0.3456	1.300	H
ATOM	1490	CZ	ARG	188	63.443	-0.835	43.599	0.8076	1.700	C
ATOM	1491	NH1	ARG	188	63.673	0.445	43.920	-0.8627	1.550	N
ATOM	1492	HH11	ARG	188	63.069	0.907	44.584	0.4478	1.300	H
ATOM	1493	HH12	ARG	188	64.409	0.959	43.463	0.4478	1.300	H
ATOM	1494	NH2	ARG	188	64.203	-1.458	42.695	-0.8627	1.550	N
ATOM	1495	HH21	ARG	188	64.033	-2.426	42.466	0.4478	1.300	H
ATOM	1496	HH22	ARG	188	64.932	-0.953	42.213	0.4478	1.300	H
ATOM	1497	C	ARG	188	57.208	-1.022	43.964	0.7341	1.700	C
ATOM	1498	O	ARG	188	56.766	-1.261	45.101	-0.5894	1.500	O
ATOM	1499	N	LEU	189	56.778	-0.013	43.227	-0.4157	1.550	N
ATOM	1500	H	LEU	189	57.147	0.139	42.301	0.2719	1.300	H
ATOM	1501	CA	LEU	189	55.746	0.869	43.723	-0.0518	1.700	C
ATOM	1502	HA	LEU	189	55.986	1.160	44.745	0.0922	1.200	H
ATOM	1503	CB	LEU	189	55.662	2.127	42.847	-0.1102	1.700	C
ATOM	1504	HB2	LEU	189	55.637	1.816	41.806	0.0457	1.200	H
ATOM	1505	HB3	LEU	189	54.732	2.656	43.059	0.0457	1.200	H
ATOM	1506	CG	LEU	189	56.852	3.082	43.079	0.3531	1.700	C
ATOM	1507	HG	LEU	189	57.783	2.520	43.002	-0.0361	1.200	H
ATOM	1508	CD1	LEU	189	56.904	4.155	42.035	-0.4121	1.700	C
ATOM	1509	HD11	LEU	189	57.790	4.768	42.180	0.1000	1.200	H
ATOM	1510	HD12	LEU	189	56.931	3.710	41.040	0.1000	1.200	H
ATOM	1511	HD13	LEU	189	56.021	4.784	42.109	0.1000	1.200	H
ATOM	1512	CD2	LEU	189	56.782	3.685	44.477	-0.4121	1.700	C
ATOM	1513	HD21	LEU	189	57.445	4.546	44.548	0.1000	1.200	H
ATOM	1514	HD22	LEU	189	55.762	3.991	44.721	0.1000	1.200	H
ATOM	1515	HD23	LEU	189	57.126	2.946	45.200	0.1000	1.200	H
ATOM	1516	C	LEU	189	54.421	0.091	43.787	0.5973	1.700	C
ATOM	1517	O	LEU	189	53.488	0.494	44.476	-0.5679	1.500	O
ATOM	1518	N	ALA	190	54.360	-1.064	43.131	-0.4157	1.550	N
ATOM	1519	H	ALA	190	55.136	-1.376	42.565	0.2719	1.300	H
ATOM	1520	CA	ALA	190	53.143	-1.880	43.166	0.0337	1.700	C
ATOM	1521	HA	ALA	190	52.265	-1.233	43.194	0.0823	1.200	H
ATOM	1522	CB	ALA	190	53.049	-2.730	41.930	-0.1825	1.700	C
ATOM	1523	HB1	ALA	190	52.951	-2.095	41.056	0.0603	1.200	H
ATOM	1524	HB2	ALA	190	53.939	-3.353	41.831	0.0603	1.200	H
ATOM	1525	HB3	ALA	190	52.170	-3.369	41.978	0.0603	1.200	H
ATOM	1526	C	ALA	190	53.139	-2.755	44.420	0.5973	1.700	C
ATOM	1527	O	ALA	190	52.120	-3.335	44.798	-0.5679	1.500	O
ATOM	1528	N	PHE	191	54.267	-2.787	45.116	-0.4157	1.550	N
ATOM	1529	H	PHE	191	55.079	-2.280	44.796	0.2719	1.300	H
ATOM	1530	CA	PHE	191	54.384	-3.603	46.311	-0.0024	1.700	C
ATOM	1531	HA	PHE	191	53.479	-4.185	46.484	0.0978	1.200	H

ATOM	1532	CB	PHE	191	55.541	-4.593	46.117	-0.0343	1.700	C
ATOM	1533	HB2	PHE	191	56.479	-4.038	46.058	0.0295	1.200	H
ATOM	1534	HB3	PHE	191	55.601	-5.243	46.992	0.0295	1.200	H
ATOM	1535	CG	PHE	191	55.391	-5.454	44.888	0.0118	1.700	C
ATOM	1536	CD1	PHE	191	54.479	-6.503	44.869	-0.1256	1.700	C
ATOM	1537	HD1	PHE	191	53.910	-6.733	45.760	0.1330	1.200	H
ATOM	1538	CE1	PHE	191	54.266	-7.241	43.725	-0.1704	1.700	C
ATOM	1539	HE1	PHE	191	53.537	-8.041	43.722	0.1430	1.200	H
ATOM	1540	CZ	PHE	191	54.974	-6.942	42.571	-0.1072	1.700	C
ATOM	1541	HZ	PHE	191	54.816	-7.522	41.672	0.1297	1.200	H
ATOM	1542	CE2	PHE	191	55.889	-5.910	42.578	-0.1704	1.700	C
ATOM	1543	HE2	PHE	191	56.438	-5.669	41.680	0.1430	1.200	H
ATOM	1544	CD2	PHE	191	56.095	-5.168	43.740	-0.1256	1.700	C
ATOM	1545	HD2	PHE	191	56.806	-4.379	43.749	0.1330	1.200	H
ATOM	1546	C	PHE	191	54.618	-2.757	47.543	0.5973	1.700	C
ATOM	1547	O	PHE	191	54.539	-3.252	48.665	-0.5679	1.500	O
ATOM	1548	N	HIS	192	54.939	-1.483	47.325	-0.4157	1.550	N
ATOM	1549	H	HIS	192	55.018	-1.144	46.378	0.2719	1.300	H
ATOM	1550	CA	HIS	192	55.212	-0.540	48.406	-0.0581	1.700	C
ATOM	1551	HA	HIS	192	54.871	-0.949	49.359	0.1360	1.200	H
ATOM	1552	CB	HIS	192	56.712	-0.296	48.517	-0.0074	1.700	C
ATOM	1553	HB2	HIS	192	57.137	-0.106	47.531	0.0367	1.200	H
ATOM	1554	HB3	HIS	192	56.884	0.594	49.126	0.0367	1.200	H
ATOM	1555	CG	HIS	192	57.446	-1.415	49.165	0.1868	1.700	C
ATOM	1556	ND1	HIS	192	57.548	-1.533	50.535	-0.5432	1.550	N
ATOM	1557	CE1	HIS	192	58.200	-2.643	50.830	0.1635	1.700	C
ATOM	1558	HE1	HIS	192	58.429	-2.994	51.826	0.1435	1.200	H
ATOM	1559	NE2	HIS	192	58.525	-3.242	49.700	-0.2795	1.550	N
ATOM	1560	HE2	HIS	192	59.025	-4.115	49.626	0.3339	1.300	H
ATOM	1561	CD2	HIS	192	58.068	-2.495	48.644	-0.2207	1.700	C
ATOM	1562	HD2	HIS	192	58.155	-2.737	47.595	0.1862	1.200	H
ATOM	1563	C	HIS	192	54.554	0.808	48.224	0.5973	1.700	C
ATOM	1564	O	HIS	192	54.979	1.602	47.376	-0.5679	1.500	O
ATOM	1565	N	HIS	193	53.575	1.113	49.066	-0.4157	1.550	N
ATOM	1566	H	HIS	193	53.294	0.469	49.791	0.2719	1.300	H
ATOM	1567	CA	HIS	193	52.927	2.412	48.960	-0.0581	1.700	C
ATOM	1568	HA	HIS	193	52.784	2.630	47.902	0.1360	1.200	H
ATOM	1569	CB	HIS	193	51.573	2.399	49.652	-0.0074	1.700	C
ATOM	1570	HB2	HIS	193	51.112	1.428	49.461	0.0367	1.200	H
ATOM	1571	HB3	HIS	193	51.659	2.488	50.735	0.0367	1.200	H
ATOM	1572	CG	HIS	193	50.621	3.413	49.109	0.1868	1.700	C
ATOM	1573	ND1	HIS	193	49.394	3.665	49.682	-0.5432	1.550	N
ATOM	1574	CE1	HIS	193	48.756	4.573	48.966	0.1635	1.700	C
ATOM	1575	HE1	HIS	193	47.775	4.972	49.180	0.1435	1.200	H
ATOM	1576	NE2	HIS	193	49.527	4.920	47.954	-0.2795	1.550	N
ATOM	1577	HE2	HIS	193	49.301	5.608	47.254	0.3339	1.300	H
ATOM	1578	CD2	HIS	193	50.699	4.210	48.019	-0.2207	1.700	C
ATOM	1579	HD2	HIS	193	51.520	4.276	47.320	0.1862	1.200	H
ATOM	1580	C	HIS	193	53.827	3.488	49.586	0.5973	1.700	C
ATOM	1581	O	HIS	193	53.520	4.022	50.649	-0.5679	1.500	O
ATOM	1582	N	VAL	194	54.913	3.835	48.909	-0.4157	1.550	N
ATOM	1583	H	VAL	194	55.146	3.366	48.046	0.2719	1.300	H
ATOM	1584	CA	VAL	194	55.836	4.826	49.445	-0.0875	1.700	C
ATOM	1585	HA	VAL	194	56.280	4.405	50.350	0.0969	1.200	H
ATOM	1586	CB	VAL	194	56.951	5.113	48.459	0.2985	1.700	C
ATOM	1587	HB	VAL	194	56.544	5.593	47.567	-0.0297	1.200	H
ATOM	1588	CG1	VAL	194	57.961	6.033	49.075	-0.3192	1.700	C
ATOM	1589	HG11	VAL	194	58.824	6.139	48.417	0.0791	1.200	H
ATOM	1590	HG12	VAL	194	57.514	7.014	49.196	0.0791	1.200	H
ATOM	1591	HG13	VAL	194	58.291	5.652	50.043	0.0791	1.200	H
ATOM	1592	CG2	VAL	194	57.591	3.801	48.030	-0.3192	1.700	C
ATOM	1593	HG21	VAL	194	58.471	4.003	47.419	0.0791	1.200	H
ATOM	1594	HG22	VAL	194	57.895	3.226	48.907	0.0791	1.200	H
ATOM	1595	HG23	VAL	194	56.907	3.210	47.430	0.0791	1.200	H
ATOM	1596	C	VAL	194	55.152	6.125	49.821	0.5973	1.700	C
ATOM	1597	O	VAL	194	55.294	6.587	50.944	-0.5679	1.500	O
ATOM	1598	N	ALA	195	54.369	6.680	48.898	-0.4157	1.550	N
ATOM	1599	H	ALA	195	54.276	6.232	47.998	0.2719	1.300	H
ATOM	1600	CA	ALA	195	53.654	7.943	49.117	0.0337	1.700	C
ATOM	1601	HA	ALA	195	54.395	8.743	49.136	0.0823	1.200	H
ATOM	1602	CB	ALA	195	52.695	8.219	47.985	-0.1825	1.700	C
ATOM	1603	HB1	ALA	195	52.141	9.130	48.200	0.0603	1.200	H
ATOM	1604	HB2	ALA	195	53.255	8.353	47.060	0.0603	1.200	H
ATOM	1605	HB3	ALA	195	51.993	7.391	47.876	0.0603	1.200	H
ATOM	1606	C	ALA	195	52.909	7.981	50.422	0.5973	1.700	C
ATOM	1607	O	ALA	195	52.924	8.995	51.105	-0.5679	1.500	O
ATOM	1608	N	ARG	196	52.282	6.873	50.783	-0.3479	1.550	N

ATOM	1609	H	ARG	196	52.330	6.054	50.195	0.2747	1.300	H
ATOM	1610	CA	ARG	196	51.525	6.797	52.025	-0.2637	1.700	C
ATOM	1611	HA	ARG	196	50.934	7.697	52.160	0.1560	1.200	H
ATOM	1612	CB	ARG	196	50.611	5.583	51.990	-0.0007	1.700	C
ATOM	1613	HB2	ARG	196	50.100	5.644	51.036	0.0327	1.200	H
ATOM	1614	HB3	ARG	196	51.214	4.674	52.017	0.0327	1.200	H
ATOM	1615	CG	ARG	196	49.543	5.526	53.044	0.0390	1.700	C
ATOM	1616	HG2	ARG	196	49.979	5.559	54.043	0.0285	1.200	H
ATOM	1617	HG3	ARG	196	48.858	6.361	52.919	0.0285	1.200	H
ATOM	1618	CD	ARG	196	48.814	4.229	52.864	0.0486	1.700	C
ATOM	1619	HD2	ARG	196	48.565	4.112	51.820	0.0687	1.200	H
ATOM	1620	HD3	ARG	196	49.478	3.418	53.161	0.0687	1.200	H
ATOM	1621	NE	ARG	196	47.529	4.181	53.542	-0.5295	1.550	N
ATOM	1622	HE	ARG	196	46.954	5.011	53.509	0.3456	1.300	H
ATOM	1623	CZ	ARG	196	47.069	3.101	54.177	0.8076	1.700	C
ATOM	1624	NH1	ARG	196	47.805	1.988	54.232	-0.8627	1.550	N
ATOM	1625	HH11	ARG	196	47.450	1.165	54.692	0.4478	1.300	H
ATOM	1626	HH12	ARG	196	48.725	1.978	53.819	0.4478	1.300	H
ATOM	1627	NH2	ARG	196	45.839	3.100	54.691	-0.8627	1.550	N
ATOM	1628	HH21	ARG	196	45.263	3.926	54.617	0.4478	1.300	H
ATOM	1629	HH22	ARG	196	45.496	2.289	55.183	0.4478	1.300	H
ATOM	1630	C	ARG	196	52.463	6.688	53.214	0.7341	1.700	C
ATOM	1631	O	ARG	196	52.136	7.124	54.320	-0.5894	1.500	O
ATOM	1632	N	GLU	197	53.625	6.087	52.996	-0.5163	1.550	N
ATOM	1633	H	GLU	197	53.853	5.739	52.076	0.2936	1.300	H
ATOM	1634	CA	GLU	197	54.596	5.928	54.068	0.0397	1.700	C
ATOM	1635	HA	GLU	197	54.123	5.462	54.933	0.1105	1.200	H
ATOM	1636	CB	GLU	197	55.763	5.063	53.606	0.0560	1.700	C
ATOM	1637	HB2	GLU	197	56.276	5.491	52.753	-0.0173	1.200	H
ATOM	1638	HB3	GLU	197	56.486	5.062	54.424	-0.0173	1.200	H
ATOM	1639	CG	GLU	197	55.415	3.613	53.316	0.0136	1.700	C
ATOM	1640	HG2	GLU	197	55.037	3.164	54.236	-0.0425	1.200	H
ATOM	1641	HG3	GLU	197	54.629	3.538	52.587	-0.0425	1.200	H
ATOM	1642	CD	GLU	197	56.622	2.810	52.859	0.8054	1.700	C
ATOM	1643	OE1	GLU	197	57.766	3.307	53.004	-0.8188	1.500	O
ATOM	1644	OE2	GLU	197	56.438	1.677	52.357	-0.8188	1.500	O
ATOM	1645	C	GLU	197	55.115	7.295	54.457	0.5366	1.700	C
ATOM	1646	O	GLU	197	55.000	7.709	55.601	-0.5819	1.500	O
ATOM	1647	N	LEU	198	55.620	8.005	53.457	-0.4157	1.550	N
ATOM	1648	H	LEU	198	55.639	7.589	52.537	0.2719	1.300	H
ATOM	1649	CA	LEU	198	56.201	9.327	53.607	-0.0518	1.700	C
ATOM	1650	HA	LEU	198	56.823	9.319	54.503	0.0922	1.200	H
ATOM	1651	CB	LEU	198	57.089	9.617	52.412	-0.1102	1.700	C
ATOM	1652	HB2	LEU	198	56.433	9.771	51.552	0.0457	1.200	H
ATOM	1653	HB3	LEU	198	57.620	10.555	52.584	0.0457	1.200	H
ATOM	1654	CG	LEU	198	58.095	8.541	52.040	0.3531	1.700	C
ATOM	1655	HG	LEU	198	57.597	7.581	51.915	-0.0361	1.200	H
ATOM	1656	CD1	LEU	198	58.733	8.881	50.699	-0.4121	1.700	C
ATOM	1657	HD11	LEU	198	59.406	8.080	50.394	0.1000	1.200	H
ATOM	1658	HD12	LEU	198	57.961	9.025	49.944	0.1000	1.200	H
ATOM	1659	HD13	LEU	198	59.305	9.806	50.788	0.1000	1.200	H
ATOM	1660	CD2	LEU	198	59.125	8.407	53.137	-0.4121	1.700	C
ATOM	1661	HD21	LEU	198	59.875	7.671	52.844	0.1000	1.200	H
ATOM	1662	HD22	LEU	198	59.617	9.364	53.318	0.1000	1.200	H
ATOM	1663	HD23	LEU	198	58.655	8.060	54.057	0.1000	1.200	H
ATOM	1664	C	LEU	198	55.245	10.497	53.739	0.5973	1.700	C
ATOM	1665	O	LEU	198	55.654	11.552	54.203	-0.5679	1.500	O
ATOM	1666	N	HIS	199	54.016	10.358	53.250	-0.4157	1.550	N
ATOM	1667	H	HIS	199	53.733	9.481	52.837	0.2719	1.300	H
ATOM	1668	CA	HIS	199	53.040	11.452	53.295	-0.0581	1.700	C
ATOM	1669	HA	HIS	199	53.323	12.182	54.055	0.1360	1.200	H
ATOM	1670	CB	HIS	199	52.964	12.176	51.953	-0.0074	1.700	C
ATOM	1671	HB2	HIS	199	52.731	11.476	51.153	0.0367	1.200	H
ATOM	1672	HB3	HIS	199	52.170	12.916	51.980	0.0367	1.200	H
ATOM	1673	CG	HIS	199	54.209	12.911	51.590	0.1868	1.700	C
ATOM	1674	ND1	HIS	199	55.183	12.623	50.698	-0.5432	1.550	N
ATOM	1675	CE1	HIS	199	56.095	13.645	50.749	0.1635	1.700	C
ATOM	1676	HE1	HIS	199	56.999	13.708	50.162	0.1435	1.200	H
ATOM	1677	NE2	HIS	199	55.699	14.530	51.646	-0.2795	1.550	N
ATOM	1678	HE2	HIS	199	56.192	15.368	51.916	0.3339	1.300	H
ATOM	1679	CD2	HIS	199	54.560	14.111	52.169	-0.2207	1.700	C
ATOM	1680	HD2	HIS	199	54.027	14.602	52.967	0.1862	1.200	H
ATOM	1681	C	HIS	199	51.652	10.985	53.624	0.5973	1.700	C
ATOM	1682	O	HIS	199	50.720	11.191	52.845	-0.5679	1.500	O
ATOM	1683	N	PRO	200	51.469	10.416	54.813	-0.2548	1.550	N
ATOM	1684	CD	PRO	200	52.433	10.194	55.897	0.0192	1.700	C
ATOM	1685	HD2	PRO	200	53.154	11.007	55.985	0.0391	1.200	H

ATOM	1686	HD3	PRO	200	52.932	9.234	55.769	0.0391	1.200	H
ATOM	1687	CG	PRO	200	51.536	10.169	57.075	0.0189	1.700	C
ATOM	1688	HG2	PRO	200	51.227	11.182	57.340	0.0213	1.200	H
ATOM	1689	HG3	PRO	200	52.016	9.685	57.926	0.0213	1.200	H
ATOM	1690	CB	PRO	200	50.378	9.382	56.589	-0.0070	1.700	C
ATOM	1691	HB2	PRO	200	49.507	9.506	57.235	0.0253	1.200	H
ATOM	1692	HB3	PRO	200	50.648	8.326	56.526	0.0253	1.200	H
ATOM	1693	CA	PRO	200	50.144	9.939	55.193	-0.0266	1.700	C
ATOM	1694	HA	PRO	200	49.839	9.119	54.550	0.0641	1.200	H
ATOM	1695	C	PRO	200	49.092	11.041	55.208	0.5896	1.700	C
ATOM	1696	O	PRO	200	47.892	10.749	55.188	-0.5748	1.500	O
ATOM	1697	N	GLU	201	49.524	12.304	55.237	-0.5163	1.550	N
ATOM	1698	H	GLU	201	50.511	12.523	55.231	0.2936	1.300	H
ATOM	1699	CA	GLU	201	48.564	13.400	55.268	0.0397	1.700	C
ATOM	1700	HA	GLU	201	47.970	13.259	56.172	0.1105	1.200	H
ATOM	1701	CB	GLU	201	49.255	14.762	55.415	0.0560	1.700	C
ATOM	1702	HB2	GLU	201	48.472	15.452	55.735	-0.0173	1.200	H
ATOM	1703	HB3	GLU	201	49.974	14.745	56.235	-0.0173	1.200	H
ATOM	1704	CG	GLU	201	49.826	15.349	54.155	0.0136	1.700	C
ATOM	1705	HG2	GLU	201	49.205	15.151	53.284	-0.0425	1.200	H
ATOM	1706	HG3	GLU	201	49.846	16.433	54.282	-0.0425	1.200	H
ATOM	1707	CD	GLU	201	51.240	14.918	53.898	0.8054	1.700	C
ATOM	1708	OE1	GLU	201	51.837	14.289	54.789	-0.8188	1.500	O
ATOM	1709	OE2	GLU	201	51.765	15.210	52.800	-0.8188	1.500	O
ATOM	1710	C	GLU	201	47.570	13.369	54.085	0.5366	1.700	C
ATOM	1711	O	GLU	201	46.412	13.779	54.230	-0.5819	1.500	O
ATOM	1712	N	TYR	202	47.982	12.816	52.949	-0.4157	1.550	N
ATOM	1713	H	TYR	202	48.925	12.463	52.866	0.2719	1.300	H
ATOM	1714	CA	TYR	202	47.084	12.733	51.813	-0.0014	1.700	C
ATOM	1715	HA	TYR	202	46.471	13.633	51.765	0.0876	1.200	H
ATOM	1716	CB	TYR	202	47.879	12.617	50.530	-0.0152	1.700	C
ATOM	1717	HB2	TYR	202	48.439	11.681	50.541	0.0295	1.200	H
ATOM	1718	HB3	TYR	202	47.186	12.587	49.689	0.0295	1.200	H
ATOM	1719	CG	TYR	202	48.818	13.763	50.312	-0.0011	1.700	C
ATOM	1720	CD1	TYR	202	48.355	15.063	50.322	-0.1906	1.700	C
ATOM	1721	HD1	TYR	202	47.309	15.260	50.500	0.1699	1.200	H
ATOM	1722	CE1	TYR	202	49.211	16.136	50.087	-0.2341	1.700	C
ATOM	1723	HE1	TYR	202	48.828	17.145	50.103	0.1656	1.200	H
ATOM	1724	CZ	TYR	202	50.544	15.911	49.837	0.3226	1.700	C
ATOM	1725	OH	TYR	202	51.363	16.987	49.607	-0.5579	1.500	O
ATOM	1726	HH	TYR	202	52.281	16.725	49.522	0.3992	1.200	H
ATOM	1727	CE2	TYR	202	51.037	14.621	49.823	-0.2341	1.700	C
ATOM	1728	HE2	TYR	202	52.080	14.393	49.773	0.1656	1.200	H
ATOM	1729	CD2	TYR	202	50.170	13.552	50.063	-0.1906	1.700	C
ATOM	1730	HD2	TYR	202	50.567	12.547	50.093	0.1699	1.200	H
ATOM	1731	C	TYR	202	46.141	11.535	51.957	0.5973	1.700	C
ATOM	1732	O	TYR	202	45.340	11.255	51.074	-0.5679	1.500	O
ATOM	1733	N	PHE	203	46.256	10.811	53.063	-0.3821	1.550	N
ATOM	1734	H	PHE	203	46.900	11.100	53.779	0.2681	1.300	H
ATOM	1735	CA	PHE	203	45.405	9.647	53.329	-0.1825	1.700	C
ATOM	1736	HA	PHE	203	44.543	9.629	52.662	0.1098	1.200	H
ATOM	1737	CB	PHE	203	46.203	8.339	53.173	-0.0959	1.700	C
ATOM	1738	HB2	PHE	203	46.847	8.176	54.038	0.0443	1.200	H
ATOM	1739	HB3	PHE	203	45.503	7.503	53.130	0.0443	1.200	H
ATOM	1740	CG	PHE	203	47.097	8.312	51.987	0.0552	1.700	C
ATOM	1741	CD1	PHE	203	48.351	8.877	52.045	-0.1300	1.700	C
ATOM	1742	HD1	PHE	203	48.672	9.361	52.945	0.1408	1.200	H
ATOM	1743	CE1	PHE	203	49.176	8.907	50.923	-0.1847	1.700	C
ATOM	1744	HE1	PHE	203	50.139	9.395	50.970	0.1461	1.200	H
ATOM	1745	CZ	PHE	203	48.747	8.369	49.745	-0.0944	1.700	C
ATOM	1746	HZ	PHE	203	49.382	8.390	48.872	0.1280	1.200	H
ATOM	1747	CE2	PHE	203	47.484	7.792	49.683	-0.1847	1.700	C
ATOM	1748	HE2	PHE	203	47.121	7.391	48.747	0.1461	1.200	H
ATOM	1749	CD2	PHE	203	46.671	7.768	50.802	-0.1300	1.700	C
ATOM	1750	HD2	PHE	203	45.686	7.330	50.732	0.1408	1.200	H
ATOM	1751	C	PHE	203	44.906	9.748	54.779	0.7660	1.700	C
ATOM	1752	O	PHE	203	43.809	10.248	55.056	-0.8026	1.500	O
ATOM	1753	OXT	PHE	203	45.609	9.358	55.709	-0.8026	1.500	O
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ATOM	1754	N	ARG	71	29.767	14.413	17.375	0.1305	1.550	N
ATOM	1755	H1	ARG	71	30.334	14.047	16.623	0.2083	1.300	H
ATOM	1756	H2	ARG	71	28.793	14.389	17.104	0.2083	1.300	H
ATOM	1757	H3	ARG	71	29.900	13.844	18.200	0.2083	1.300	H
ATOM	1758	CA	ARG	71	30.161	15.790	17.668	-0.0223	1.700	C
ATOM	1759	HA	ARG	71	30.171	16.363	16.743	0.1242	1.200	H
ATOM	1760	CB	ARG	71	29.120	16.415	18.599	0.0118	1.700	C
ATOM	1761	HB2	ARG	71	28.129	16.141	18.233	0.0226	1.200	H

ATOM	1762	HB3	ARG	71	29.227	15.988	19.598	0.0226	1.200	H
ATOM	1763	CG	ARG	71	29.155	17.914	18.685	0.0236	1.700	C
ATOM	1764	HG2	ARG	71	30.149	18.208	19.027	0.0309	1.200	H
ATOM	1765	HG3	ARG	71	28.980	18.355	17.703	0.0309	1.200	H
ATOM	1766	CD	ARG	71	28.113	18.414	19.664	0.0935	1.700	C
ATOM	1767	HD2	ARG	71	27.187	18.633	19.130	0.0527	1.200	H
ATOM	1768	HD3	ARG	71	27.914	17.642	20.410	0.0527	1.200	H
ATOM	1769	NE	ARG	71	28.584	19.605	20.363	-0.5650	1.550	N
ATOM	1770	HE	ARG	71	29.447	20.020	20.045	0.3592	1.300	H
ATOM	1771	CZ	ARG	71	27.956	20.174	21.389	0.8281	1.700	C
ATOM	1772	NH1	ARG	71	26.819	19.658	21.847	-0.8693	1.550	N
ATOM	1773	HH11	ARG	71	26.348	20.091	22.627	0.4494	1.300	H
ATOM	1774	HH12	ARG	71	26.434	18.831	21.418	0.4494	1.300	H
ATOM	1775	NH2	ARG	71	28.459	21.270	21.954	-0.8693	1.550	N
ATOM	1776	HH21	ARG	71	27.963	21.723	22.707	0.4494	1.300	H
ATOM	1777	HH22	ARG	71	29.346	21.644	21.650	0.4494	1.300	H
ATOM	1778	C	ARG	71	31.562	15.745	18.312	0.7214	1.700	C
ATOM	1779	O	ARG	71	31.727	15.309	19.457	-0.6013	1.500	O
ATOM	1780	N	PRO	72	32.593	16.165	17.567	-0.2548	1.550	N
ATOM	1781	CD	PRO	72	32.490	16.742	16.225	0.0192	1.700	C
ATOM	1782	HD2	PRO	72	32.370	17.825	16.284	0.0391	1.200	H
ATOM	1783	HD3	PRO	72	31.706	16.287	15.621	0.0391	1.200	H
ATOM	1784	CG	PRO	72	33.813	16.382	15.660	0.0189	1.700	C
ATOM	1785	HG2	PRO	72	34.049	16.984	14.782	0.0213	1.200	H
ATOM	1786	HG3	PRO	72	33.845	15.318	15.415	0.0213	1.200	H
ATOM	1787	CB	PRO	72	34.732	16.679	16.785	-0.0070	1.700	C
ATOM	1788	HB2	PRO	72	34.891	17.758	16.847	0.0253	1.200	H
ATOM	1789	HB3	PRO	72	35.689	16.169	16.665	0.0253	1.200	H
ATOM	1790	CA	PRO	72	33.985	16.175	18.016	-0.0266	1.700	C
ATOM	1791	HA	PRO	72	34.290	15.149	18.227	0.0641	1.200	H
ATOM	1792	C	PRO	72	34.294	17.062	19.215	0.5896	1.700	C
ATOM	1793	O	PRO	72	33.609	18.051	19.455	-0.5748	1.500	O
ATOM	1794	N	GLN	73	35.342	16.700	19.959	-0.4157	1.550	N
ATOM	1795	H	GLN	73	35.883	15.889	19.701	0.2719	1.300	H
ATOM	1796	CA	GLN	73	35.793	17.481	21.111	-0.0031	1.700	C
ATOM	1797	HA	GLN	73	34.962	17.665	21.796	0.0850	1.200	H
ATOM	1798	CB	GLN	73	36.956	16.784	21.827	-0.0036	1.700	C
ATOM	1799	HB2	GLN	73	36.791	15.707	21.765	0.0171	1.200	H
ATOM	1800	HB3	GLN	73	37.901	16.991	21.321	0.0171	1.200	H
ATOM	1801	CG	GLN	73	37.078	17.112	23.316	-0.0645	1.700	C
ATOM	1802	HG2	GLN	73	36.133	16.883	23.811	0.0352	1.200	H
ATOM	1803	HG3	GLN	73	37.848	16.471	23.749	0.0352	1.200	H
ATOM	1804	CD	GLN	73	37.448	18.547	23.581	0.6951	1.700	C
ATOM	1805	OE1	GLN	73	36.517	19.309	24.112	-0.6086	1.500	O
ATOM	1806	NE2	GLN	73	38.556	18.967	23.297	-0.9407	1.550	N
ATOM	1807	HE21	GLN	73	38.742	19.951	23.421	0.4251	1.300	H
ATOM	1808	HE22	GLN	73	39.239	18.365	22.866	0.4251	1.300	H
ATOM	1809	C	GLN	73	36.291	18.763	20.468	0.5973	1.700	C
ATOM	1810	O	GLN	73	37.039	18.735	19.485	-0.5679	1.500	O
ATOM	1811	N	VAL	74	35.847	19.885	20.999	-0.4157	1.550	N
ATOM	1812	H	VAL	74	35.258	19.861	21.820	0.2719	1.300	H
ATOM	1813	CA	VAL	74	36.207	21.178	20.445	-0.0875	1.700	C
ATOM	1814	HA	VAL	74	35.950	21.108	19.390	0.0969	1.200	H
ATOM	1815	CB	VAL	74	35.298	22.262	21.082	0.2985	1.700	C
ATOM	1816	HB	VAL	74	34.677	21.807	21.856	-0.0297	1.200	H
ATOM	1817	CG1	VAL	74	36.092	23.346	21.746	-0.3192	1.700	C
ATOM	1818	HG11	VAL	74	35.401	24.034	22.225	0.0791	1.200	H
ATOM	1819	HG12	VAL	74	36.729	22.882	22.490	0.0791	1.200	H
ATOM	1820	HG13	VAL	74	36.678	23.909	21.020	0.0791	1.200	H
ATOM	1821	CG2	VAL	74	34.371	22.803	20.032	-0.3192	1.700	C
ATOM	1822	HG21	VAL	74	33.689	23.525	20.483	0.0791	1.200	H
ATOM	1823	HG22	VAL	74	34.936	23.296	19.241	0.0791	1.200	H
ATOM	1824	HG23	VAL	74	33.782	21.991	19.604	0.0791	1.200	H
ATOM	1825	C	VAL	74	37.704	21.478	20.543	0.5973	1.700	C
ATOM	1826	O	VAL	74	38.379	20.999	21.448	-0.5679	1.500	O
ATOM	1827	N	PRO	75	38.261	22.191	19.555	-0.2548	1.550	N
ATOM	1828	CD	PRO	75	37.672	22.677	18.299	0.0192	1.700	C
ATOM	1829	HD2	PRO	75	37.161	23.625	18.470	0.0391	1.200	H
ATOM	1830	HD3	PRO	75	37.008	21.947	17.837	0.0391	1.200	H
ATOM	1831	CG	PRO	75	38.888	22.882	17.431	0.0189	1.700	C
ATOM	1832	HG2	PRO	75	38.694	23.603	16.636	0.0213	1.200	H
ATOM	1833	HG3	PRO	75	39.211	21.928	17.009	0.0213	1.200	H
ATOM	1834	CB	PRO	75	39.904	23.385	18.392	-0.0070	1.700	C
ATOM	1835	HB2	PRO	75	39.695	24.430	18.632	0.0253	1.200	H
ATOM	1836	HB3	PRO	75	40.916	23.281	17.999	0.0253	1.200	H
ATOM	1837	CA	PRO	75	39.688	22.499	19.617	-0.0266	1.700	C
ATOM	1838	HA	PRO	75	40.265	21.577	19.520	0.0641	1.200	H

ATOM	1839	C	PRO	75	40.028	23.229	20.910	0.5896	1.700	C
ATOM	1840	O	PRO	75	39.265	24.066	21.403	-0.5748	1.500	O
ATOM	1841	N	LEU	76	41.162	22.856	21.478	-0.4157	1.550	N
ATOM	1842	H	LEU	76	41.727	22.152	21.028	0.2719	1.300	H
ATOM	1843	CA	LEU	76	41.658	23.415	22.722	-0.0518	1.700	C
ATOM	1844	HA	LEU	76	40.878	23.339	23.474	0.0922	1.200	H
ATOM	1845	CB	LEU	76	42.855	22.556	23.166	-0.1102	1.700	C
ATOM	1846	HB2	LEU	76	42.389	21.599	23.411	0.0457	1.200	H
ATOM	1847	HB3	LEU	76	43.442	22.360	22.266	0.0457	1.200	H
ATOM	1848	CG	LEU	76	43.880	22.829	24.271	0.3531	1.700	C
ATOM	1849	HG	LEU	76	43.365	23.178	25.166	-0.0361	1.200	H
ATOM	1850	CD1	LEU	76	44.548	21.503	24.582	-0.4121	1.700	C
ATOM	1851	HD11	LEU	76	45.341	21.642	25.316	0.1000	1.200	H
ATOM	1852	HD12	LEU	76	43.820	20.771	24.936	0.1000	1.200	H
ATOM	1853	HD13	LEU	76	45.013	21.106	23.678	0.1000	1.200	H
ATOM	1854	CD2	LEU	76	44.932	23.864	23.852	-0.4121	1.700	C
ATOM	1855	HD21	LEU	76	45.788	23.824	24.528	0.1000	1.200	H
ATOM	1856	HD22	LEU	76	45.276	23.673	22.833	0.1000	1.200	H
ATOM	1857	HD23	LEU	76	44.506	24.866	23.905	0.1000	1.200	H
ATOM	1858	C	LEU	76	42.062	24.867	22.516	0.5973	1.700	C
ATOM	1859	O	LEU	76	42.506	25.239	21.433	-0.5679	1.500	O
ATOM	1860	N	ARG	77	41.872	25.690	23.537	-0.3479	1.550	N
ATOM	1861	H	ARG	77	41.509	25.339	24.410	0.2747	1.300	H
ATOM	1862	CA	ARG	77	42.250	27.094	23.464	-0.2637	1.700	C
ATOM	1863	HA	ARG	77	43.186	27.171	22.910	0.1560	1.200	H
ATOM	1864	CB	ARG	77	41.189	27.934	22.758	-0.0007	1.700	C
ATOM	1865	HB2	ARG	77	41.463	28.988	22.782	0.0327	1.200	H
ATOM	1866	HB3	ARG	77	41.149	27.627	21.712	0.0327	1.200	H
ATOM	1867	CG	ARG	77	39.827	27.785	23.355	0.0390	1.700	C
ATOM	1868	HG2	ARG	77	39.524	26.738	23.314	0.0285	1.200	H
ATOM	1869	HG3	ARG	77	39.835	28.110	24.393	0.0285	1.200	H
ATOM	1870	CD	ARG	77	38.816	28.578	22.594	0.0486	1.700	C
ATOM	1871	HD2	ARG	77	39.016	29.640	22.743	0.0687	1.200	H
ATOM	1872	HD3	ARG	77	38.895	28.341	21.532	0.0687	1.200	H
ATOM	1873	NE	ARG	77	37.467	28.251	23.047	-0.5295	1.550	N
ATOM	1874	HE	ARG	77	37.359	27.429	23.625	0.3456	1.300	H
ATOM	1875	CZ	ARG	77	36.381	28.928	22.702	0.8076	1.700	C
ATOM	1876	NH1	ARG	77	36.492	29.976	21.903	-0.8627	1.550	N
ATOM	1877	HH11	ARG	77	37.400	30.241	21.556	0.4478	1.300	H
ATOM	1878	HH12	ARG	77	35.668	30.485	21.623	0.4478	1.300	H
ATOM	1879	NH2	ARG	77	35.188	28.532	23.119	-0.8627	1.550	N
ATOM	1880	HH21	ARG	77	34.357	29.005	22.803	0.4478	1.300	H
ATOM	1881	HH22	ARG	77	35.122	27.711	23.703	0.4478	1.300	H
ATOM	1882	C	ARG	77	42.460	27.598	24.877	0.7341	1.700	C
ATOM	1883	O	ARG	77	42.000	26.977	25.842	-0.5894	1.500	O
ATOM	1884	N	PRO	78	43.234	28.682	25.026	-0.2548	1.550	N
ATOM	1885	CD	PRO	78	44.050	29.320	23.974	0.0192	1.700	C
ATOM	1886	HD2	PRO	78	43.508	29.481	23.045	0.0391	1.200	H
ATOM	1887	HD3	PRO	78	44.950	28.729	23.795	0.0391	1.200	H
ATOM	1888	CG	PRO	78	44.404	30.631	24.587	0.0189	1.700	C
ATOM	1889	HG2	PRO	78	43.567	31.327	24.509	0.0213	1.200	H
ATOM	1890	HG3	PRO	78	45.300	31.056	24.134	0.0213	1.200	H
ATOM	1891	CB	PRO	78	44.641	30.241	26.035	-0.0070	1.700	C
ATOM	1892	HB2	PRO	78	44.622	31.112	26.693	0.0253	1.200	H
ATOM	1893	HB3	PRO	78	45.602	29.730	26.124	0.0253	1.200	H
ATOM	1894	CA	PRO	78	43.512	29.263	26.338	-0.0266	1.700	C
ATOM	1895	HA	PRO	78	43.873	28.494	27.024	0.0641	1.200	H
ATOM	1896	C	PRO	78	42.331	29.996	26.957	0.5896	1.700	C
ATOM	1897	O	PRO	78	41.554	30.657	26.257	-0.5748	1.500	O
ATOM	1898	N	MET	79	42.200	29.868	28.272	-0.4157	1.550	N
ATOM	1899	H	MET	79	42.859	29.307	28.791	0.2719	1.300	H
ATOM	1900	CA	MET	79	41.157	30.560	29.009	-0.0237	1.700	C
ATOM	1901	HA	MET	79	40.175	30.318	28.606	0.0880	1.200	H
ATOM	1902	CB	MET	79	41.254	30.202	30.495	0.0342	1.700	C
ATOM	1903	HB2	MET	79	41.103	29.125	30.586	0.0241	1.200	H
ATOM	1904	HB3	MET	79	42.257	30.427	30.862	0.0241	1.200	H
ATOM	1905	CG	MET	79	40.246	30.884	31.408	0.0018	1.700	C
ATOM	1906	HG2	MET	79	40.253	30.407	32.388	0.0440	1.200	H
ATOM	1907	HG3	MET	79	40.555	31.922	31.536	0.0440	1.200	H
ATOM	1908	SD	MET	79	38.582	30.890	30.752	-0.2737	1.800	S
ATOM	1909	CE	MET	79	37.835	29.417	31.348	-0.0536	1.700	C
ATOM	1910	HE1	MET	79	37.050	29.106	30.666	0.0684	1.200	H
ATOM	1911	HE2	MET	79	38.588	28.633	31.366	0.0684	1.200	H
ATOM	1912	HE3	MET	79	37.436	29.580	32.349	0.0684	1.200	H
ATOM	1913	C	MET	79	41.479	32.038	28.819	0.5973	1.700	C
ATOM	1914	O	MET	79	42.636	32.396	28.569	-0.5679	1.500	O
ATOM	1915	N	THR	80	40.462	32.892	28.855	-0.4157	1.550	N

ATOM	1916	H	THR	80	39.531	32.565	29.071	0.2719	1.300	H
ATOM	1917	CA	THR	80	40.694	34.320	28.724	-0.0389	1.700	C
ATOM	1918	HA	THR	80	41.739	34.561	28.924	0.1007	1.200	H
ATOM	1919	CB	THR	80	40.346	34.829	27.343	0.3654	1.700	C
ATOM	1920	HB	THR	80	40.593	35.888	27.268	0.0043	1.200	H
ATOM	1921	CG2	THR	80	41.112	34.070	26.291	-0.2438	1.700	C
ATOM	1922	HG21	THR	80	40.980	34.567	25.330	0.0642	1.200	H
ATOM	1923	HG22	THR	80	42.176	34.062	26.527	0.0642	1.200	H
ATOM	1924	HG23	THR	80	40.741	33.051	26.200	0.0642	1.200	H
ATOM	1925	OG1	THR	80	38.950	34.649	27.118	-0.6761	1.500	O
ATOM	1926	HG1	THR	80	38.778	33.705	27.073	0.4102	1.200	H
ATOM	1927	C	THR	80	39.859	35.078	29.741	0.5973	1.700	C
ATOM	1928	O	THR	80	38.999	34.502	30.429	-0.5679	1.500	O
ATOM	1929	N	TYR	81	40.130	36.375	29.838	-0.4157	1.550	N
ATOM	1930	H	TYR	81	40.866	36.776	29.275	0.2719	1.300	H
ATOM	1931	CA	TYR	81	39.413	37.257	30.734	-0.0014	1.700	C
ATOM	1932	HA	TYR	81	39.452	36.883	31.758	0.0876	1.200	H
ATOM	1933	CB	TYR	81	40.015	38.659	30.657	-0.0152	1.700	C
ATOM	1934	HB2	TYR	81	41.022	38.636	31.076	0.0295	1.200	H
ATOM	1935	HB3	TYR	81	40.095	38.973	29.615	0.0295	1.200	H
ATOM	1936	CG	TYR	81	39.191	39.657	31.401	-0.0011	1.700	C
ATOM	1937	CD1	TYR	81	38.102	40.278	30.796	-0.1906	1.700	C
ATOM	1938	HD1	TYR	81	37.901	40.119	29.747	0.1699	1.200	H
ATOM	1939	CE1	TYR	81	37.239	41.071	31.520	-0.2341	1.700	C
ATOM	1940	HE1	TYR	81	36.383	41.528	31.045	0.1656	1.200	H
ATOM	1941	CZ	TYR	81	37.471	41.261	32.856	0.3226	1.700	C
ATOM	1942	OH	TYR	81	36.583	41.986	33.619	-0.5579	1.500	O
ATOM	1943	HH	TYR	81	36.866	42.103	34.532	0.3992	1.200	H
ATOM	1944	CE2	TYR	81	38.559	40.672	33.468	-0.2341	1.700	C
ATOM	1945	HE2	TYR	81	38.733	40.820	34.524	0.1656	1.200	H
ATOM	1946	CD2	TYR	81	39.406	39.879	32.742	-0.1906	1.700	C
ATOM	1947	HD2	TYR	81	40.241	39.409	33.237	0.1699	1.200	H
ATOM	1948	C	TYR	81	37.963	37.301	30.247	0.5973	1.700	C
ATOM	1949	O	TYR	81	37.027	37.120	31.007	-0.5679	1.500	O
ATOM	1950	N	LYS	82	37.793	37.502	28.951	-0.3479	1.550	N
ATOM	1951	H	LYS	82	38.597	37.629	28.355	0.2747	1.300	H
ATOM	1952	CA	LYS	82	36.474	37.595	28.365	-0.2400	1.700	C
ATOM	1953	HA	LYS	82	35.892	38.323	28.934	0.1426	1.200	H
ATOM	1954	CB	LYS	82	36.578	38.085	26.925	-0.0094	1.700	C
ATOM	1955	HB2	LYS	82	37.070	39.059	26.912	0.0362	1.200	H
ATOM	1956	HB3	LYS	82	37.167	37.378	26.337	0.0362	1.200	H
ATOM	1957	CG	LYS	82	35.180	38.212	26.329	0.0187	1.700	C
ATOM	1958	HG2	LYS	82	34.676	37.246	26.306	0.0103	1.200	H
ATOM	1959	HG3	LYS	82	34.590	38.917	26.916	0.0103	1.200	H
ATOM	1960	CD	LYS	82	35.284	38.702	24.889	-0.0479	1.700	C
ATOM	1961	HD2	LYS	82	35.777	39.675	24.870	0.0621	1.200	H
ATOM	1962	HD3	LYS	82	35.866	37.989	24.302	0.0621	1.200	H
ATOM	1963	CE	LYS	82	33.886	38.829	24.293	-0.0143	1.700	C
ATOM	1964	HE2	LYS	82	33.386	37.859	24.323	0.1135	1.200	H
ATOM	1965	HE3	LYS	82	33.307	39.541	24.885	0.1135	1.200	H
ATOM	1966	NZ	LYS	82	33.986	39.302	22.904	-0.3854	1.550	N
ATOM	1967	HZ1	LYS	82	33.057	39.445	22.533	0.3400	1.300	H
ATOM	1968	HZ2	LYS	82	34.494	40.175	22.876	0.3400	1.300	H
ATOM	1969	HZ3	LYS	82	34.468	38.614	22.342	0.3400	1.300	H
ATOM	1970	C	LYS	82	35.754	36.272	28.431	0.7341	1.700	C
ATOM	1971	O	LYS	82	34.549	36.241	28.642	-0.5894	1.500	O
ATOM	1972	N	ALA	83	36.483	35.173	28.253	-0.4157	1.550	N
ATOM	1973	H	ALA	83	37.477	35.252	28.112	0.2719	1.300	H
ATOM	1974	CA	ALA	83	35.893	33.844	28.312	0.0337	1.700	C
ATOM	1975	HA	ALA	83	35.006	33.809	27.676	0.0823	1.200	H
ATOM	1976	CB	ALA	83	36.864	32.841	27.837	-0.1825	1.700	C
ATOM	1977	HB1	ALA	83	36.414	31.852	27.934	0.0603	1.200	H
ATOM	1978	HB2	ALA	83	37.092	33.008	26.785	0.0603	1.200	H
ATOM	1979	HB3	ALA	83	37.764	32.852	28.447	0.0603	1.200	H
ATOM	1980	C	ALA	83	35.487	33.540	29.744	0.5973	1.700	C
ATOM	1981	O	ALA	83	34.425	32.959	29.992	-0.5679	1.500	O
ATOM	1982	N	ALA	84	36.309	33.963	30.699	-0.4157	1.550	N
ATOM	1983	H	ALA	84	37.150	34.467	30.465	0.2719	1.300	H
ATOM	1984	CA	ALA	84	36.002	33.731	32.107	0.0337	1.700	C
ATOM	1985	HA	ALA	84	35.774	32.672	32.241	0.0823	1.200	H
ATOM	1986	CB	ALA	84	37.215	34.058	32.975	-0.1825	1.700	C
ATOM	1987	HB1	ALA	84	36.989	33.812	34.007	0.0603	1.200	H
ATOM	1988	HB2	ALA	84	38.066	33.453	32.664	0.0603	1.200	H
ATOM	1989	HB3	ALA	84	37.471	35.114	32.892	0.0603	1.200	H
ATOM	1990	C	ALA	84	34.772	34.548	32.554	0.5973	1.700	C
ATOM	1991	O	ALA	84	33.959	34.077	33.367	-0.5679	1.500	O
ATOM	1992	N	VAL	85	34.645	35.776	32.043	-0.4157	1.550	N

ATOM	1993	H	VAL	85	35.343	36.135	31.408	0.2719	1.300	H
ATOM	1994	CA	VAL	85	33.496	36.633	32.379	-0.0875	1.700	C
ATOM	1995	HA	VAL	85	33.388	36.646	33.465	0.0969	1.200	H
ATOM	1996	CB	VAL	85	33.700	38.106	31.906	0.2985	1.700	C
ATOM	1997	HB	VAL	85	34.112	38.110	30.896	-0.0297	1.200	H
ATOM	1998	CG1	VAL	85	32.379	38.843	31.882	-0.3192	1.700	C
ATOM	1999	HG11	VAL	85	32.554	39.897	31.665	0.0791	1.200	H
ATOM	2000	HG12	VAL	85	31.723	38.461	31.099	0.0791	1.200	H
ATOM	2001	HG13	VAL	85	31.899	38.764	32.853	0.0791	1.200	H
ATOM	2002	CG2	VAL	85	34.660	38.815	32.833	-0.3192	1.700	C
ATOM	2003	HG21	VAL	85	34.798	39.845	32.506	0.0791	1.200	H
ATOM	2004	HG22	VAL	85	34.268	38.816	33.851	0.0791	1.200	H
ATOM	2005	HG23	VAL	85	35.629	38.319	32.827	0.0791	1.200	H
ATOM	2006	C	VAL	85	32.182	36.060	31.810	0.5973	1.700	C
ATOM	2007	O	VAL	85	31.170	36.028	32.513	-0.5679	1.500	O
ATOM	2008	N	ASP	86	32.202	35.588	30.563	-0.5163	1.550	N
ATOM	2009	H	ASP	86	33.034	35.671	29.996	0.2936	1.300	H
ATOM	2010	CA	ASP	86	31.005	35.020	29.963	0.0381	1.700	C
ATOM	2011	HA	ASP	86	30.182	35.725	30.095	0.0880	1.200	H
ATOM	2012	CB	ASP	86	31.190	34.797	28.476	-0.0303	1.700	C
ATOM	2013	HB2	ASP	86	32.026	34.114	28.310	-0.0122	1.200	H
ATOM	2014	HB3	ASP	86	30.286	34.340	28.071	-0.0122	1.200	H
ATOM	2015	CG	ASP	86	31.457	36.093	27.723	0.7994	1.700	C
ATOM	2016	OD1	ASP	86	31.521	37.148	28.364	-0.8014	1.500	O
ATOM	2017	OD2	ASP	86	31.644	36.081	26.491	-0.8014	1.500	O
ATOM	2018	C	ASP	86	30.628	33.729	30.661	0.5366	1.700	C
ATOM	2019	O	ASP	86	29.497	33.571	31.089	-0.5819	1.500	O
ATOM	2020	N	LEU	87	31.598	32.844	30.864	-0.4157	1.550	N
ATOM	2021	H	LEU	87	32.531	33.037	30.528	0.2719	1.300	H
ATOM	2022	CA	LEU	87	31.349	31.572	31.544	-0.0518	1.700	C
ATOM	2023	HA	LEU	87	30.623	31.013	30.957	0.0922	1.200	H
ATOM	2024	CB	LEU	87	32.642	30.747	31.678	-0.1102	1.700	C
ATOM	2025	HB2	LEU	87	33.435	31.414	32.020	0.0457	1.200	H
ATOM	2026	HB3	LEU	87	32.494	30.007	32.467	0.0457	1.200	H
ATOM	2027	CG	LEU	87	33.117	29.993	30.433	0.3531	1.700	C
ATOM	2028	HG	LEU	87	33.149	30.679	29.586	-0.0361	1.200	H
ATOM	2029	CD1	LEU	87	34.516	29.458	30.661	-0.4121	1.700	C
ATOM	2030	HD11	LEU	87	34.548	28.857	31.566	0.1000	1.200	H
ATOM	2031	HD12	LEU	87	34.831	28.860	29.806	0.1000	1.200	H
ATOM	2032	HD13	LEU	87	35.195	30.303	30.773	0.1000	1.200	H
ATOM	2033	CD2	LEU	87	32.137	28.865	30.092	-0.4121	1.700	C
ATOM	2034	HD21	LEU	87	31.151	29.263	29.855	0.1000	1.200	H
ATOM	2035	HD22	LEU	87	32.499	28.323	29.219	0.1000	1.200	H
ATOM	2036	HD23	LEU	87	32.056	28.170	30.929	0.1000	1.200	H
ATOM	2037	C	LEU	87	30.750	31.775	32.914	0.5973	1.700	C
ATOM	2038	O	LEU	87	29.853	31.032	33.300	-0.5679	1.500	O
ATOM	2039	N	SER	88	31.248	32.765	33.658	-0.4157	1.550	N
ATOM	2040	H	SER	88	31.986	33.349	33.289	0.2719	1.300	H
ATOM	2041	CA	SER	88	30.743	33.034	35.007	-0.0249	1.700	C
ATOM	2042	HA	SER	88	30.824	32.119	35.592	0.0843	1.200	H
ATOM	2043	CB	SER	88	31.549	34.129	35.701	0.2117	1.700	C
ATOM	2044	HB2	SER	88	31.427	35.074	35.171	0.0352	1.200	H
ATOM	2045	HB3	SER	88	31.170	34.242	36.716	0.0352	1.200	H
ATOM	2046	OG	SER	88	32.926	33.823	35.772	-0.6546	1.500	O
ATOM	2047	HG	SER	88	33.297	33.884	34.882	0.4275	1.200	H
ATOM	2048	C	SER	88	29.293	33.464	34.955	0.5973	1.700	C
ATOM	2049	O	SER	88	28.465	32.950	35.703	-0.5679	1.500	O
ATOM	2050	N	HIS	89	28.978	34.391	34.051	-0.4157	1.550	N
ATOM	2051	H	HIS	89	29.685	34.760	33.428	0.2719	1.300	H
ATOM	2052	CA	HIS	89	27.610	34.888	33.935	0.0188	1.700	C
ATOM	2053	HA	HIS	89	27.273	35.162	34.936	0.0881	1.200	H
ATOM	2054	CB	HIS	89	27.538	36.161	33.080	-0.0462	1.700	C
ATOM	2055	HB2	HIS	89	28.073	36.005	32.141	0.0402	1.200	H
ATOM	2056	HB3	HIS	89	26.493	36.364	32.840	0.0402	1.200	H
ATOM	2057	CG	HIS	89	28.084	37.361	33.788	-0.0266	1.700	C
ATOM	2058	ND1	HIS	89	29.338	37.871	33.531	-0.3811	1.550	N
ATOM	2059	HD1	HIS	89	29.975	37.522	32.828	0.3649	1.300	H
ATOM	2060	CE1	HIS	89	29.622	38.813	34.411	0.2057	1.700	C
ATOM	2061	HE1	HIS	89	30.548	39.363	34.482	0.1392	1.200	H
ATOM	2062	NE2	HIS	89	28.591	38.943	35.223	-0.5727	1.550	N
ATOM	2063	CD2	HIS	89	27.613	38.053	34.852	0.1292	1.700	C
ATOM	2064	HD2	HIS	89	26.676	37.880	35.362	0.1147	1.200	H
ATOM	2065	C	HIS	89	26.683	33.816	33.453	0.5973	1.700	C
ATOM	2066	O	HIS	89	25.577	33.711	33.959	-0.5679	1.500	O
ATOM	2067	N	PHE	90	27.170	32.970	32.549	-0.4157	1.550	N
ATOM	2068	H	PHE	90	28.101	33.118	32.190	0.2719	1.300	H
ATOM	2069	CA	PHE	90	26.411	31.858	32.012	-0.0024	1.700	C

ATOM	2070	HA	PHE	90	25.502	32.227	31.536	0.0978	1.200	H
ATOM	2071	CB	PHE	90	27.259	31.127	30.968	-0.0343	1.700	C
ATOM	2072	HB2	PHE	90	27.249	31.706	30.044	0.0295	1.200	H
ATOM	2073	HB3	PHE	90	28.293	31.084	31.302	0.0295	1.200	H
ATOM	2074	CG	PHE	90	26.816	29.711	30.684	0.0118	1.700	C
ATOM	2075	CD1	PHE	90	27.235	28.659	31.493	-0.1256	1.700	C
ATOM	2076	HD1	PHE	90	27.954	28.848	32.269	0.1330	1.200	H
ATOM	2077	CE1	PHE	90	26.820	27.365	31.250	-0.1704	1.700	C
ATOM	2078	HE1	PHE	90	27.182	26.545	31.851	0.1430	1.200	H
ATOM	2079	CZ	PHE	90	25.978	27.102	30.182	-0.1072	1.700	C
ATOM	2080	HZ	PHE	90	25.654	26.091	29.983	0.1297	1.200	H
ATOM	2081	CE2	PHE	90	25.560	28.133	29.366	-0.1704	1.700	C
ATOM	2082	HE2	PHE	90	24.899	27.934	28.534	0.1430	1.200	H
ATOM	2083	CD2	PHE	90	25.979	29.432	29.620	-0.1256	1.700	C
ATOM	2084	HD2	PHE	90	25.640	30.233	28.978	0.1330	1.200	H
ATOM	2085	C	PHE	90	26.026	30.905	33.141	0.5973	1.700	C
ATOM	2086	O	PHE	90	24.858	30.563	33.307	-0.5679	1.500	O
ATOM	2087	N	LEU	91	27.014	30.462	33.907	-0.4157	1.550	N
ATOM	2088	H	LEU	91	27.961	30.770	33.732	0.2719	1.300	H
ATOM	2089	CA	LEU	91	26.769	29.532	35.006	-0.0518	1.700	C
ATOM	2090	HA	LEU	91	26.249	28.657	34.619	0.0922	1.200	H
ATOM	2091	CB	LEU	91	28.089	29.100	35.674	-0.1102	1.700	C
ATOM	2092	HB2	LEU	91	28.518	29.991	36.136	0.0457	1.200	H
ATOM	2093	HB3	LEU	91	27.825	28.424	36.490	0.0457	1.200	H
ATOM	2094	CG	LEU	91	29.205	28.441	34.869	0.3531	1.700	C
ATOM	2095	HG	LEU	91	29.575	29.043	34.082	-0.0361	1.200	H
ATOM	2096	CD1	LEU	91	30.349	28.100	35.797	-0.4121	1.700	C
ATOM	2097	HD11	LEU	91	31.194	27.756	35.201	0.1000	1.200	H
ATOM	2098	HD12	LEU	91	30.634	28.979	36.376	0.1000	1.200	H
ATOM	2099	HD13	LEU	91	30.028	27.296	36.452	0.1000	1.200	H
ATOM	2100	CD2	LEU	91	28.678	27.201	34.197	-0.4121	1.700	C
ATOM	2101	HD21	LEU	91	29.363	26.896	33.406	0.1000	1.200	H
ATOM	2102	HD22	LEU	91	28.597	26.388	34.919	0.1000	1.200	H
ATOM	2103	HD23	LEU	91	27.688	27.352	33.791	0.1000	1.200	H
ATOM	2104	C	LEU	91	25.876	30.182	36.049	0.5973	1.700	C
ATOM	2105	O	LEU	91	25.038	29.521	36.677	-0.5679	1.500	O
ATOM	2106	N	LYS	92	26.093	31.469	36.278	-0.3479	1.550	N
ATOM	2107	H	LYS	92	26.783	31.980	35.745	0.2747	1.300	H
ATOM	2108	CA	LYS	92	25.290	32.167	37.250	-0.2400	1.700	C
ATOM	2109	HA	LYS	92	25.378	31.662	38.213	0.1426	1.200	H
ATOM	2110	CB	LYS	92	25.731	33.612	37.399	-0.0094	1.700	C
ATOM	2111	HB2	LYS	92	26.812	33.650	37.526	0.0362	1.200	H
ATOM	2112	HB3	LYS	92	25.466	34.178	36.506	0.0362	1.200	H
ATOM	2113	CG	LYS	92	25.106	34.250	38.613	0.0187	1.700	C
ATOM	2114	HG2	LYS	92	24.030	34.070	38.596	0.0103	1.200	H
ATOM	2115	HG3	LYS	92	25.525	33.767	39.497	0.0103	1.200	H
ATOM	2116	CD	LYS	92	25.323	35.739	38.676	-0.0479	1.700	C
ATOM	2117	HD2	LYS	92	26.368	35.946	38.854	0.0621	1.200	H
ATOM	2118	HD3	LYS	92	25.023	36.202	37.735	0.0621	1.200	H
ATOM	2119	CE	LYS	92	24.489	36.327	39.797	-0.0143	1.700	C
ATOM	2120	HE2	LYS	92	24.734	37.386	39.885	0.1135	1.200	H
ATOM	2121	HE3	LYS	92	23.427	36.228	39.564	0.1135	1.200	H
ATOM	2122	NZ	LYS	92	24.790	35.641	41.095	-0.3854	1.550	N
ATOM	2123	HZ1	LYS	92	25.770	35.389	41.133	0.3400	1.300	H
ATOM	2124	HZ2	LYS	92	24.572	36.249	41.873	0.3400	1.300	H
ATOM	2125	HZ3	LYS	92	24.241	34.794	41.173	0.3400	1.300	H
ATOM	2126	C	LYS	92	23.849	32.097	36.780	0.7341	1.700	C
ATOM	2127	O	LYS	92	22.959	31.789	37.568	-0.5894	1.500	O
ATOM	2128	N	GLU	93	23.634	32.342	35.488	-0.5163	1.550	N
ATOM	2129	H	GLU	93	24.410	32.570	34.884	0.2936	1.300	H
ATOM	2130	CA	GLU	93	22.303	32.289	34.896	0.0397	1.700	C
ATOM	2131	HA	GLU	93	21.658	33.037	35.360	0.1105	1.200	H
ATOM	2132	CB	GLU	93	22.357	32.526	33.379	0.0560	1.700	C
ATOM	2133	HB2	GLU	93	22.984	31.796	32.891	-0.0173	1.200	H
ATOM	2134	HB3	GLU	93	21.354	32.360	32.982	-0.0173	1.200	H
ATOM	2135	CG	GLU	93	22.787	33.939	32.945	0.0136	1.700	C
ATOM	2136	HG2	GLU	93	21.886	34.554	32.964	-0.0425	1.200	H
ATOM	2137	HG3	GLU	93	23.436	34.417	33.666	-0.0425	1.200	H
ATOM	2138	CD	GLU	93	23.346	34.014	31.502	0.8054	1.700	C
ATOM	2139	OE1	GLU	93	23.018	33.148	30.651	-0.8188	1.500	O
ATOM	2140	OE2	GLU	93	24.128	34.953	31.224	-0.8188	1.500	O
ATOM	2141	C	GLU	93	21.750	30.902	35.165	0.5366	1.700	C
ATOM	2142	O	GLU	93	20.667	30.775	35.716	-0.5819	1.500	O
ATOM	2143	N	LYS	94	22.543	29.874	34.852	-0.3479	1.550	N
ATOM	2144	H	LYS	94	23.439	30.064	34.426	0.2747	1.300	H
ATOM	2145	CA	LYS	94	22.161	28.466	35.035	-0.2400	1.700	C
ATOM	2146	HA	LYS	94	21.271	28.286	34.430	0.1426	1.200	H

ATOM	2147	CB	LYS	94	23.284	27.552	34.531	-0.0094	1.700	C
ATOM	2148	HB2	LYS	94	23.502	27.791	33.489	0.0362	1.200	H
ATOM	2149	HB3	LYS	94	24.183	27.700	35.126	0.0362	1.200	H
ATOM	2150	CG	LYS	94	22.843	26.096	34.642	0.0187	1.700	C
ATOM	2151	HG2	LYS	94	22.718	25.788	35.674	0.0103	1.200	H
ATOM	2152	HG3	LYS	94	21.928	25.925	34.072	0.0103	1.200	H
ATOM	2153	CD	LYS	94	23.960	25.187	34.141	-0.0479	1.700	C
ATOM	2154	HD2	LYS	94	24.179	25.423	33.098	0.0621	1.200	H
ATOM	2155	HD3	LYS	94	24.858	25.345	34.742	0.0621	1.200	H
ATOM	2156	CE	LYS	94	23.519	23.732	34.252	-0.0143	1.700	C
ATOM	2157	HE2	LYS	94	23.300	23.503	35.296	0.1135	1.200	H
ATOM	2158	HE3	LYS	94	22.618	23.577	33.656	0.1135	1.200	H
ATOM	2159	NZ	LYS	94	24.596	22.855	33.768	-0.3854	1.550	N
ATOM	2160	HZ1	LYS	94	24.750	23.014	32.781	0.3400	1.300	H
ATOM	2161	HZ2	LYS	94	25.449	23.053	34.272	0.3400	1.300	H
ATOM	2162	HZ3	LYS	94	24.335	21.889	33.913	0.3400	1.300	H
ATOM	2163	C	LYS	94	21.813	28.113	36.477	0.7341	1.700	C
ATOM	2164	O	LYS	94	21.205	27.086	36.746	-0.5894	1.500	O
ATOM	2165	N	GLY	95	22.225	28.964	37.403	-0.4157	1.550	N
ATOM	2166	H	GLY	95	22.718	29.804	37.137	0.2719	1.300	H
ATOM	2167	CA	GLY	95	21.936	28.731	38.804	-0.0252	1.700	C
ATOM	2168	HA2	GLY	95	22.345	29.560	39.381	0.0698	1.200	H
ATOM	2169	HA3	GLY	95	20.855	28.710	38.950	0.0698	1.200	H
ATOM	2170	C	GLY	95	22.537	27.442	39.319	0.5973	1.700	C
ATOM	2171	O	GLY	95	21.837	26.611	39.895	-0.5679	1.500	O
ATOM	2172	N	GLY	96	23.840	27.273	39.130	-0.4157	1.550	N
ATOM	2173	H	GLY	96	24.384	27.974	38.647	0.2719	1.300	H
ATOM	2174	CA	GLY	96	24.482	26.057	39.596	-0.0252	1.700	C
ATOM	2175	HA2	GLY	96	23.752	25.287	39.847	0.0698	1.200	H
ATOM	2176	HA3	GLY	96	25.054	25.661	38.756	0.0698	1.200	H
ATOM	2177	C	GLY	96	25.435	26.198	40.770	0.5973	1.700	C
ATOM	2178	O	GLY	96	25.072	25.909	41.908	-0.5679	1.500	O
ATOM	2179	N	LEU	97	26.651	26.662	40.484	-0.4157	1.550	N
ATOM	2180	H	LEU	97	26.873	26.904	39.530	0.2719	1.300	H
ATOM	2181	CA	LEU	97	27.703	26.814	41.483	-0.0518	1.700	C
ATOM	2182	HA	LEU	97	27.992	25.816	41.811	0.0922	1.200	H
ATOM	2183	CB	LEU	97	28.904	27.493	40.861	-0.1102	1.700	C
ATOM	2184	HB2	LEU	97	28.621	28.521	40.638	0.0457	1.200	H
ATOM	2185	HB3	LEU	97	29.706	27.516	41.597	0.0457	1.200	H
ATOM	2186	CG	LEU	97	29.437	26.877	39.592	0.3531	1.700	C
ATOM	2187	HG	LEU	97	28.682	26.907	38.805	-0.0361	1.200	H
ATOM	2188	CD1	LEU	97	30.633	27.674	39.137	-0.4121	1.700	C
ATOM	2189	HD11	LEU	97	31.054	27.262	38.241	0.1000	1.200	H
ATOM	2190	HD12	LEU	97	30.337	28.701	38.931	0.1000	1.200	H
ATOM	2191	HD13	LEU	97	31.402	27.676	39.911	0.1000	1.200	H
ATOM	2192	CD2	LEU	97	29.812	25.439	39.875	-0.4121	1.700	C
ATOM	2193	HD21	LEU	97	30.271	25.005	38.989	0.1000	1.200	H
ATOM	2194	HD22	LEU	97	30.520	25.382	40.702	0.1000	1.200	H
ATOM	2195	HD23	LEU	97	28.930	24.841	40.105	0.1000	1.200	H
ATOM	2196	C	LEU	97	27.367	27.588	42.739	0.5973	1.700	C
ATOM	2197	O	LEU	97	27.960	27.340	43.786	-0.5679	1.500	O
ATOM	2198	N	GLU	98	26.446	28.541	42.638	-0.5163	1.550	N
ATOM	2199	H	GLU	98	25.954	28.691	41.771	0.2936	1.300	H
ATOM	2200	CA	GLU	98	26.123	29.380	43.781	0.0397	1.700	C
ATOM	2201	HA	GLU	98	27.010	29.984	43.977	0.1105	1.200	H
ATOM	2202	CB	GLU	98	24.964	30.326	43.470	0.0560	1.700	C
ATOM	2203	HB2	GLU	98	25.065	30.687	42.444	-0.0173	1.200	H
ATOM	2204	HB3	GLU	98	24.019	29.783	43.531	-0.0173	1.200	H
ATOM	2205	CG	GLU	98	24.910	31.539	44.399	0.0136	1.700	C
ATOM	2206	HG2	GLU	98	24.024	32.125	44.151	-0.0425	1.200	H
ATOM	2207	HG3	GLU	98	24.808	31.202	45.432	-0.0425	1.200	H
ATOM	2208	CD	GLU	98	26.131	32.433	44.265	0.8054	1.700	C
ATOM	2209	OE1	GLU	98	26.404	32.888	43.135	-0.8188	1.500	O
ATOM	2210	OE2	GLU	98	26.817	32.682	45.279	-0.8188	1.500	O
ATOM	2211	C	GLU	98	25.810	28.573	45.006	0.5366	1.700	C
ATOM	2212	O	GLU	98	24.974	27.679	44.972	-0.5819	1.500	O
ATOM	2213	N	GLY	99	26.531	28.851	46.076	-0.4157	1.550	N
ATOM	2214	H	GLY	99	27.256	29.553	46.050	0.2719	1.300	H
ATOM	2215	CA	GLY	99	26.298	28.133	47.307	-0.0252	1.700	C
ATOM	2216	HA2	GLY	99	26.793	28.696	48.089	0.0698	1.200	H
ATOM	2217	HA3	GLY	99	25.229	28.122	47.523	0.0698	1.200	H
ATOM	2218	C	GLY	99	26.811	26.705	47.324	0.5973	1.700	C
ATOM	2219	O	GLY	99	27.228	26.225	48.381	-0.5679	1.500	O
ATOM	2220	N	LEU	100	26.808	26.027	46.178	-0.4157	1.550	N
ATOM	2221	H	LEU	100	26.484	26.473	45.332	0.2719	1.300	H
ATOM	2222	CA	LEU	100	27.272	24.638	46.106	-0.0518	1.700	C
ATOM	2223	HA	LEU	100	26.485	24.018	46.536	0.0922	1.200	H

ATOM	2224	CB	LEU	100	27.479	24.219	44.650	-0.1102	1.700	C
ATOM	2225	HB2	LEU	100	26.538	24.356	44.113	0.0457	1.200	H
ATOM	2226	HB3	LEU	100	28.207	24.901	44.214	0.0457	1.200	H
ATOM	2227	CG	LEU	100	28.002	22.802	44.402	0.3531	1.700	C
ATOM	2228	HG	LEU	100	28.957	22.658	44.902	-0.0361	1.200	H
ATOM	2229	CD1	LEU	100	27.006	21.801	44.914	-0.4121	1.700	C
ATOM	2230	HD11	LEU	100	27.295	20.798	44.610	0.1000	1.200	H
ATOM	2231	HD12	LEU	100	26.962	21.828	46.002	0.1000	1.200	H
ATOM	2232	HD13	LEU	100	26.014	22.013	44.511	0.1000	1.200	H
ATOM	2233	CD2	LEU	100	28.219	22.592	42.923	-0.4121	1.700	C
ATOM	2234	HD21	LEU	100	28.615	21.593	42.741	0.1000	1.200	H
ATOM	2235	HD22	LEU	100	27.279	22.710	42.382	0.1000	1.200	H
ATOM	2236	HD23	LEU	100	28.936	23.324	42.548	0.1000	1.200	H
ATOM	2237	C	LEU	100	28.563	24.401	46.890	0.5973	1.700	C
ATOM	2238	O	LEU	100	29.510	25.201	46.808	-0.5679	1.500	O
ATOM	2239	N	ILE	101	28.580	23.345	47.697	-0.4157	1.550	N
ATOM	2240	H	ILE	101	27.765	22.759	47.796	0.2719	1.300	H
ATOM	2241	CA	ILE	101	29.778	23.030	48.461	-0.0597	1.700	C
ATOM	2242	HA	ILE	101	30.144	23.951	48.916	0.0869	1.200	H
ATOM	2243	CB	ILE	101	29.524	22.005	49.574	0.1303	1.700	C
ATOM	2244	HB	ILE	101	29.054	21.120	49.140	0.0187	1.200	H
ATOM	2245	CG2	ILE	101	30.862	21.591	50.208	-0.3204	1.700	C
ATOM	2246	HG21	ILE	101	30.672	21.019	51.116	0.0882	1.200	H
ATOM	2247	HG22	ILE	101	31.423	20.950	49.529	0.0882	1.200	H
ATOM	2248	HG23	ILE	101	31.470	22.459	50.460	0.0882	1.200	H
ATOM	2249	CG1	ILE	101	28.573	22.589	50.633	-0.0430	1.700	C
ATOM	2250	HG12	ILE	101	27.722	23.063	50.143	0.0236	1.200	H
ATOM	2251	HG13	ILE	101	28.175	21.771	51.236	0.0236	1.200	H
ATOM	2252	CD1	ILE	101	29.212	23.590	51.568	-0.0660	1.700	C
ATOM	2253	HD11	ILE	101	28.461	24.302	51.906	0.0186	1.200	H
ATOM	2254	HD12	ILE	101	29.571	23.056	52.440	0.0186	1.200	H
ATOM	2255	HD13	ILE	101	30.033	24.119	51.093	0.0186	1.200	H
ATOM	2256	C	ILE	101	30.833	22.502	47.496	0.5973	1.700	C
ATOM	2257	O	ILE	101	30.567	21.637	46.646	-0.5679	1.500	O
ATOM	2258	N	HIS	102	32.024	23.067	47.616	-0.4157	1.550	N
ATOM	2259	H	HIS	102	32.166	23.774	48.322	0.2719	1.300	H
ATOM	2260	CA	HIS	102	33.137	22.720	46.758	-0.0581	1.700	C
ATOM	2261	HA	HIS	102	32.770	22.716	45.732	0.1360	1.200	H
ATOM	2262	CB	HIS	102	34.209	23.789	46.851	-0.0074	1.700	C
ATOM	2263	HB2	HIS	102	33.755	24.762	46.659	0.0367	1.200	H
ATOM	2264	HB3	HIS	102	34.616	23.797	47.862	0.0367	1.200	H
ATOM	2265	CG	HIS	102	35.318	23.593	45.878	0.1868	1.700	C
ATOM	2266	ND1	HIS	102	36.582	23.204	46.257	-0.5432	1.550	N
ATOM	2267	CE1	HIS	102	37.341	23.077	45.184	0.1635	1.700	C
ATOM	2268	HE1	HIS	102	38.378	22.774	45.170	0.1435	1.200	H
ATOM	2269	NE2	HIS	102	36.611	23.369	44.124	-0.2795	1.550	N
ATOM	2270	HE2	HIS	102	36.921	23.316	43.167	0.3339	1.300	H
ATOM	2271	CD2	HIS	102	35.343	23.697	44.530	-0.2207	1.700	C
ATOM	2272	HD2	HIS	102	34.529	24.037	43.942	0.1862	1.200	H
ATOM	2273	C	HIS	102	33.784	21.380	47.037	0.5973	1.700	C
ATOM	2274	O	HIS	102	33.880	20.945	48.184	-0.5679	1.500	O
ATOM	2275	N	SER	103	34.283	20.766	45.971	-0.4157	1.550	N
ATOM	2276	H	SER	103	34.206	21.203	45.063	0.2719	1.300	H
ATOM	2277	CA	SER	103	34.981	19.488	46.040	-0.0249	1.700	C
ATOM	2278	HA	SER	103	35.632	19.477	46.915	0.0843	1.200	H
ATOM	2279	CB	SER	103	33.988	18.323	46.129	0.2117	1.700	C
ATOM	2280	HB2	SER	103	34.543	17.404	46.324	0.0352	1.200	H
ATOM	2281	HB3	SER	103	33.291	18.491	46.951	0.0352	1.200	H
ATOM	2282	OG	SER	103	33.269	18.166	44.921	-0.6546	1.500	O
ATOM	2283	HG	SER	103	32.722	17.379	44.997	0.4275	1.200	H
ATOM	2284	C	SER	103	35.824	19.366	44.772	0.5973	1.700	C
ATOM	2285	O	SER	103	35.408	19.812	43.698	-0.5679	1.500	O
ATOM	2286	N	GLN	104	37.020	18.802	44.910	-0.4157	1.550	N
ATOM	2287	H	GLN	104	37.329	18.485	45.815	0.2719	1.300	H
ATOM	2288	CA	GLN	104	37.915	18.620	43.783	-0.0031	1.700	C
ATOM	2289	HA	GLN	104	38.205	19.607	43.421	0.0850	1.200	H
ATOM	2290	CB	GLN	104	39.129	17.797	44.178	-0.0036	1.700	C
ATOM	2291	HB2	GLN	104	39.540	18.199	45.107	0.0171	1.200	H
ATOM	2292	HB3	GLN	104	38.839	16.762	44.367	0.0171	1.200	H
ATOM	2293	CG	GLN	104	40.201	17.826	43.135	-0.0645	1.700	C
ATOM	2294	HG2	GLN	104	41.075	17.284	43.497	0.0352	1.200	H
ATOM	2295	HG3	GLN	104	39.848	17.321	42.237	0.0352	1.200	H
ATOM	2296	CD	GLN	104	40.604	19.246	42.815	0.6951	1.700	C
ATOM	2297	OE1	GLN	104	40.781	20.066	43.720	-0.6086	1.500	O
ATOM	2298	NE2	GLN	104	40.734	19.557	41.533	-0.9407	1.550	N
ATOM	2299	HE21	GLN	104	40.983	20.493	41.256	0.4251	1.300	H
ATOM	2300	HE22	GLN	104	40.515	18.870	40.821	0.4251	1.300	H

ATOM	2301	C	GLN	104	37.175	17.889	42.696	0.5973	1.700	C
ATOM	2302	O	GLN	104	37.314	18.214	41.524	-0.5679	1.500	O
ATOM	2303	N	ARG	105	36.373	16.905	43.083	-0.3479	1.550	N
ATOM	2304	H	ARG	105	36.304	16.656	44.058	0.2747	1.300	H
ATOM	2305	CA	ARG	105	35.617	16.155	42.095	-0.2637	1.700	C
ATOM	2306	HA	ARG	105	36.330	15.801	41.346	0.1560	1.200	H
ATOM	2307	CB	ARG	105	34.952	14.925	42.725	-0.0007	1.700	C
ATOM	2308	HB2	ARG	105	35.731	14.219	43.020	0.0327	1.200	H
ATOM	2309	HB3	ARG	105	34.419	15.232	43.627	0.0327	1.200	H
ATOM	2310	CG	ARG	105	33.947	14.211	41.804	0.0390	1.700	C
ATOM	2311	HG2	ARG	105	33.590	13.307	42.299	0.0285	1.200	H
ATOM	2312	HG3	ARG	105	33.083	14.857	41.645	0.0285	1.200	H
ATOM	2313	CD	ARG	105	34.533	13.843	40.449	0.0486	1.700	C
ATOM	2314	HD2	ARG	105	33.728	13.555	39.779	0.0687	1.200	H
ATOM	2315	HD3	ARG	105	35.024	14.695	39.990	0.0687	1.200	H
ATOM	2316	NE	ARG	105	35.515	12.768	40.528	-0.5295	1.550	N
ATOM	2317	HE	ARG	105	36.475	13.019	40.722	0.3456	1.300	H
ATOM	2318	CZ	ARG	105	35.238	11.484	40.312	0.8076	1.700	C
ATOM	2319	NH1	ARG	105	34.000	11.106	40.003	-0.8627	1.550	N
ATOM	2320	HH11	ARG	105	33.265	11.792	39.950	0.4478	1.300	H
ATOM	2321	HH12	ARG	105	33.803	10.136	39.814	0.4478	1.300	H
ATOM	2322	NH2	ARG	105	36.208	10.579	40.376	-0.8627	1.550	N
ATOM	2323	HH21	ARG	105	37.152	10.878	40.612	0.4478	1.300	H
ATOM	2324	HH22	ARG	105	36.024	9.617	40.143	0.4478	1.300	H
ATOM	2325	C	ARG	105	34.595	17.028	41.366	0.7341	1.700	C
ATOM	2326	O	ARG	105	34.556	17.043	40.134	-0.5894	1.500	O
ATOM	2327	N	ARG	106	33.789	17.771	42.117	-0.3479	1.550	N
ATOM	2328	H	ARG	106	33.902	17.778	43.119	0.2747	1.300	H
ATOM	2329	CA	ARG	106	32.778	18.635	41.514	-0.2637	1.700	C
ATOM	2330	HA	ARG	106	32.073	18.033	40.939	0.1560	1.200	H
ATOM	2331	CB	ARG	106	32.036	19.406	42.583	-0.0007	1.700	C
ATOM	2332	HB2	ARG	106	32.737	19.844	43.291	0.0327	1.200	H
ATOM	2333	HB3	ARG	106	31.563	20.260	42.093	0.0327	1.200	H
ATOM	2334	CG	ARG	106	30.926	18.664	43.247	0.0390	1.700	C
ATOM	2335	HG2	ARG	106	30.099	18.560	42.542	0.0285	1.200	H
ATOM	2336	HG3	ARG	106	31.235	17.667	43.558	0.0285	1.200	H
ATOM	2337	CD	ARG	106	30.487	19.470	44.427	0.0486	1.700	C
ATOM	2338	HD2	ARG	106	31.298	19.541	45.146	0.0687	1.200	H
ATOM	2339	HD3	ARG	106	30.287	20.488	44.091	0.0687	1.200	H
ATOM	2340	NE	ARG	106	29.253	18.971	44.997	-0.5295	1.550	N
ATOM	2341	HE	ARG	106	28.449	18.905	44.390	0.3456	1.300	H
ATOM	2342	CZ	ARG	106	29.113	18.660	46.276	0.8076	1.700	C
ATOM	2343	NH1	ARG	106	30.142	18.787	47.107	-0.8627	1.550	N
ATOM	2344	HH11	ARG	106	30.998	19.211	46.783	0.4478	1.300	H
ATOM	2345	HH12	ARG	106	30.014	18.606	48.091	0.4478	1.300	H
ATOM	2346	NH2	ARG	106	27.925	18.286	46.739	-0.8627	1.550	N
ATOM	2347	HH21	ARG	106	27.802	18.097	47.722	0.4478	1.300	H
ATOM	2348	HH22	ARG	106	27.132	18.241	46.117	0.4478	1.300	H
ATOM	2349	C	ARG	106	33.427	19.630	40.573	0.7341	1.700	C
ATOM	2350	O	ARG	106	32.947	19.864	39.462	-0.5894	1.500	O
ATOM	2351	N	GLN	107	34.533	20.207	41.017	-0.4157	1.550	N
ATOM	2352	H	GLN	107	34.913	19.963	41.918	0.2719	1.300	H
ATOM	2353	CA	GLN	107	35.229	21.170	40.199	-0.0031	1.700	C
ATOM	2354	HA	GLN	107	34.502	21.909	39.858	0.0850	1.200	H
ATOM	2355	CB	GLN	107	36.297	21.899	40.994	-0.0036	1.700	C
ATOM	2356	HB2	GLN	107	35.874	22.187	41.953	0.0171	1.200	H
ATOM	2357	HB3	GLN	107	37.142	21.230	41.170	0.0171	1.200	H
ATOM	2358	CG	GLN	107	36.750	23.127	40.280	-0.0645	1.700	C
ATOM	2359	HG2	GLN	107	36.950	22.881	39.241	0.0352	1.200	H
ATOM	2360	HG3	GLN	107	36.008	23.886	40.248	0.0352	1.200	H
ATOM	2361	CD	GLN	107	38.008	23.674	40.846	0.6951	1.700	C
ATOM	2362	OE1	GLN	107	38.186	23.734	42.059	-0.6086	1.500	O
ATOM	2363	NE2	GLN	107	38.911	24.068	39.976	-0.9407	1.550	N
ATOM	2364	HE21	GLN	107	39.786	24.461	40.289	0.4251	1.300	H
ATOM	2365	HE22	GLN	107	38.751	23.918	38.986	0.4251	1.300	H
ATOM	2366	C	GLN	107	35.856	20.525	38.976	0.5973	1.700	C
ATOM	2367	O	GLN	107	35.852	21.122	37.899	-0.5679	1.500	O
ATOM	2368	N	ASP	108	36.418	19.328	39.131	-0.5163	1.550	N
ATOM	2369	H	ASP	108	36.456	18.881	40.033	0.2936	1.300	H
ATOM	2370	CA	ASP	108	37.033	18.658	37.993	0.0381	1.700	C
ATOM	2371	HA	ASP	108	37.769	19.314	37.523	0.0880	1.200	H
ATOM	2372	CB	ASP	108	37.690	17.345	38.397	-0.0303	1.700	C
ATOM	2373	HB2	ASP	108	36.971	16.731	38.940	-0.0122	1.200	H
ATOM	2374	HB3	ASP	108	37.992	16.810	37.495	-0.0122	1.200	H
ATOM	2375	CG	ASP	108	38.913	17.548	39.255	0.7994	1.700	C
ATOM	2376	OD1	ASP	108	39.359	18.710	39.368	-0.8014	1.500	O
ATOM	2377	OD2	ASP	108	39.425	16.553	39.821	-0.8014	1.500	O

ATOM	2378	C	ASP	108	35.926	18.391	37.020	0.5366	1.700	C
ATOM	2379	O	ASP	108	36.111	18.522	35.814	-0.5819	1.500	O
ATOM	2380	N	ILE	109	34.761	18.046	37.548	-0.4157	1.550	N
ATOM	2381	H	ILE	109	34.659	17.985	38.549	0.2719	1.300	H
ATOM	2382	CA	ILE	109	33.617	17.793	36.701	-0.0597	1.700	C
ATOM	2383	HA	ILE	109	33.881	17.017	35.981	0.0869	1.200	H
ATOM	2384	CB	ILE	109	32.422	17.312	37.526	0.1303	1.700	C
ATOM	2385	HB	ILE	109	32.222	17.969	38.357	0.0187	1.200	H
ATOM	2386	CG2	ILE	109	31.183	17.271	36.675	-0.3204	1.700	C
ATOM	2387	HG21	ILE	109	30.306	17.010	37.265	0.0882	1.200	H
ATOM	2388	HG22	ILE	109	30.951	18.252	36.262	0.0882	1.200	H
ATOM	2389	HG23	ILE	109	31.304	16.560	35.856	0.0882	1.200	H
ATOM	2390	CG1	ILE	109	32.722	15.915	38.074	-0.0430	1.700	C
ATOM	2391	HG12	ILE	109	32.932	15.288	37.206	0.0236	1.200	H
ATOM	2392	HG13	ILE	109	33.615	15.796	38.638	0.0236	1.200	H
ATOM	2393	CD1	ILE	109	31.549	15.261	38.737	-0.0660	1.700	C
ATOM	2394	HD11	ILE	109	31.857	14.325	39.195	0.0186	1.200	H
ATOM	2395	HD12	ILE	109	31.150	15.914	39.514	0.0186	1.200	H
ATOM	2396	HD13	ILE	109	30.769	15.010	38.018	0.0186	1.200	H
ATOM	2397	C	ILE	109	33.288	19.064	35.913	0.5973	1.700	C
ATOM	2398	O	ILE	109	33.105	19.017	34.691	-0.5679	1.500	O
ATOM	2399	N	LEU	110	33.288	20.207	36.595	-0.4157	1.550	N
ATOM	2400	H	LEU	110	33.509	20.203	37.580	0.2719	1.300	H
ATOM	2401	CA	LEU	110	33.021	21.486	35.946	-0.0518	1.700	C
ATOM	2402	HA	LEU	110	32.014	21.466	35.529	0.0922	1.200	H
ATOM	2403	CB	LEU	110	33.140	22.614	36.965	-0.1102	1.700	C
ATOM	2404	HB2	LEU	110	32.957	22.176	37.947	0.0457	1.200	H
ATOM	2405	HB3	LEU	110	34.172	22.956	37.017	0.0457	1.200	H
ATOM	2406	CG	LEU	110	32.227	23.843	36.930	0.3531	1.700	C
ATOM	2407	HG	LEU	110	31.240	23.578	37.311	-0.0361	1.200	H
ATOM	2408	CD1	LEU	110	32.859	24.877	37.817	-0.4121	1.700	C
ATOM	2409	HD11	LEU	110	32.853	24.541	38.854	0.1000	1.200	H
ATOM	2410	HD12	LEU	110	33.884	25.075	37.505	0.1000	1.200	H
ATOM	2411	HD13	LEU	110	32.323	25.806	37.729	0.1000	1.200	H
ATOM	2412	CD2	LEU	110	32.075	24.394	35.535	-0.4121	1.700	C
ATOM	2413	HD21	LEU	110	31.491	25.313	35.552	0.1000	1.200	H
ATOM	2414	HD22	LEU	110	33.064	24.597	35.129	0.1000	1.200	H
ATOM	2415	HD23	LEU	110	31.567	23.671	34.898	0.1000	1.200	H
ATOM	2416	C	LEU	110	34.043	21.703	34.837	0.5973	1.700	C
ATOM	2417	O	LEU	110	33.685	21.760	33.660	-0.5679	1.500	O
ATOM	2418	N	ASP	111	35.320	21.779	35.224	-0.5163	1.550	N
ATOM	2419	H	ASP	111	35.542	21.712	36.206	0.2936	1.300	H
ATOM	2420	CA	ASP	111	36.447	21.993	34.299	0.0381	1.700	C
ATOM	2421	HA	ASP	111	36.401	23.026	33.951	0.0880	1.200	H
ATOM	2422	CB	ASP	111	37.771	21.790	35.019	-0.0303	1.700	C
ATOM	2423	HB2	ASP	111	37.836	20.768	35.395	-0.0122	1.200	H
ATOM	2424	HB3	ASP	111	38.578	21.954	34.312	-0.0122	1.200	H
ATOM	2425	CG	ASP	111	37.970	22.769	36.152	0.7994	1.700	C
ATOM	2426	OD1	ASP	111	37.621	23.953	35.987	-0.8014	1.500	O
ATOM	2427	OD2	ASP	111	38.469	22.359	37.218	-0.8014	1.500	O
ATOM	2428	C	ASP	111	36.409	21.103	33.075	0.5366	1.700	C
ATOM	2429	O	ASP	111	36.720	21.542	31.961	-0.5819	1.500	O
ATOM	2430	N	LEU	112	36.062	19.839	33.288	-0.4157	1.550	N
ATOM	2431	H	LEU	112	35.847	19.524	34.224	0.2719	1.300	H
ATOM	2432	CA	LEU	112	35.957	18.899	32.192	-0.0518	1.700	C
ATOM	2433	HA	LEU	112	36.862	18.957	31.587	0.0922	1.200	H
ATOM	2434	CB	LEU	112	35.795	17.459	32.689	-0.1102	1.700	C
ATOM	2435	HB2	LEU	112	35.085	17.474	33.517	0.0457	1.200	H
ATOM	2436	HB3	LEU	112	35.333	16.860	31.904	0.0457	1.200	H
ATOM	2437	CG	LEU	112	37.087	16.765	33.132	0.3531	1.700	C
ATOM	2438	HG	LEU	112	37.715	17.485	33.659	-0.0361	1.200	H
ATOM	2439	CD1	LEU	112	36.753	15.657	34.111	-0.4121	1.700	C
ATOM	2440	HD11	LEU	112	36.222	16.067	34.967	0.1000	1.200	H
ATOM	2441	HD12	LEU	112	36.130	14.903	33.628	0.1000	1.200	H
ATOM	2442	HD13	LEU	112	37.672	15.191	34.466	0.1000	1.200	H
ATOM	2443	CD2	LEU	112	37.858	16.249	31.922	-0.4121	1.700	C
ATOM	2444	HD21	LEU	112	38.709	15.657	32.257	0.1000	1.200	H
ATOM	2445	HD22	LEU	112	37.221	15.643	31.286	0.1000	1.200	H
ATOM	2446	HD23	LEU	112	38.230	17.091	31.339	0.1000	1.200	H
ATOM	2447	C	LEU	112	34.786	19.285	31.324	0.5973	1.700	C
ATOM	2448	O	LEU	112	34.899	19.233	30.097	-0.5679	1.500	O
ATOM	2449	N	TRP	113	33.669	19.690	31.929	-0.4157	1.550	N
ATOM	2450	H	TRP	113	33.621	19.756	32.937	0.2719	1.300	H
ATOM	2451	CA	TRP	113	32.510	20.093	31.124	-0.0275	1.700	C
ATOM	2452	HA	TRP	113	32.233	19.257	30.479	0.1123	1.200	H
ATOM	2453	CB	TRP	113	31.298	20.453	31.989	-0.0050	1.700	C
ATOM	2454	HB2	TRP	113	30.981	19.570	32.544	0.0339	1.200	H

ATOM	2455	HB3	TRP	113	31.540	21.233	32.704	0.0339	1.200	H
ATOM	2456	CG	TRP	113	30.158	20.934	31.135	-0.1415	1.700	C
ATOM	2457	CD1	TRP	113	29.380	20.177	30.299	-0.1638	1.700	C
ATOM	2458	HD1	TRP	113	29.463	19.105	30.184	0.2062	1.200	H
ATOM	2459	NE1	TRP	113	28.546	20.987	29.566	-0.3418	1.550	N
ATOM	2460	HE1	TRP	113	27.918	20.653	28.849	0.3412	1.300	H
ATOM	2461	CE2	TRP	113	28.757	22.292	29.929	0.1380	1.700	C
ATOM	2462	CZ2	TRP	113	28.153	23.459	29.473	-0.2601	1.700	C
ATOM	2463	HZ2	TRP	113	27.399	23.435	28.699	0.1572	1.200	H
ATOM	2464	CH2	TRP	113	28.568	24.638	30.019	-0.1134	1.700	C
ATOM	2465	HH2	TRP	113	28.143	25.561	29.657	0.1417	1.200	H
ATOM	2466	CZ3	TRP	113	29.566	24.683	31.004	-0.1972	1.700	C
ATOM	2467	HZ3	TRP	113	29.884	25.638	31.395	0.1447	1.200	H
ATOM	2468	CE3	TRP	113	30.169	23.524	31.462	-0.2387	1.700	C
ATOM	2469	HE3	TRP	113	30.940	23.561	32.215	0.1700	1.200	H
ATOM	2470	CD2	TRP	113	29.763	22.298	30.920	0.1243	1.700	C
ATOM	2471	C	TRP	113	32.888	21.278	30.234	0.5973	1.700	C
ATOM	2472	O	TRP	113	32.692	21.248	29.011	-0.5679	1.500	O
ATOM	2473	N	ILE	114	33.460	22.311	30.849	-0.4157	1.550	N
ATOM	2474	H	ILE	114	33.637	22.264	31.842	0.2719	1.300	H
ATOM	2475	CA	ILE	114	33.900	23.503	30.113	-0.0597	1.700	C
ATOM	2476	HA	ILE	114	33.034	23.952	29.623	0.0869	1.200	H
ATOM	2477	CB	ILE	114	34.536	24.551	31.081	0.1303	1.700	C
ATOM	2478	HB	ILE	114	35.389	24.088	31.583	0.0187	1.200	H
ATOM	2479	CG2	ILE	114	35.028	25.748	30.326	-0.3204	1.700	C
ATOM	2480	HG21	ILE	114	35.701	26.348	30.936	0.0882	1.200	H
ATOM	2481	HG22	ILE	114	35.624	25.457	29.468	0.0882	1.200	H
ATOM	2482	HG23	ILE	114	34.191	26.352	29.975	0.0882	1.200	H
ATOM	2483	CG1	ILE	114	33.527	24.994	32.137	-0.0430	1.700	C
ATOM	2484	HG12	ILE	114	32.644	25.394	31.636	0.0236	1.200	H
ATOM	2485	HG13	ILE	114	33.219	24.144	32.742	0.0236	1.200	H
ATOM	2486	CD1	ILE	114	34.073	26.063	33.057	-0.0660	1.700	C
ATOM	2487	HD11	ILE	114	34.783	25.578	33.721	0.0186	1.200	H
ATOM	2488	HD12	ILE	114	34.503	26.918	32.552	0.0186	1.200	H
ATOM	2489	HD13	ILE	114	33.254	26.439	33.670	0.0186	1.200	H
ATOM	2490	C	ILE	114	34.918	23.090	29.031	0.5973	1.700	C
ATOM	2491	O	ILE	114	34.898	23.607	27.919	-0.5679	1.500	O
ATOM	2492	N	TYR	115	35.806	22.155	29.359	-0.4157	1.550	N
ATOM	2493	H	TYR	115	35.793	21.754	30.287	0.2719	1.300	H
ATOM	2494	CA	TYR	115	36.799	21.675	28.405	-0.0014	1.700	C
ATOM	2495	HA	TYR	115	37.372	22.529	28.045	0.0876	1.200	H
ATOM	2496	CB	TYR	115	37.744	20.684	29.062	-0.0152	1.700	C
ATOM	2497	HB2	TYR	115	38.268	21.200	29.864	0.0295	1.200	H
ATOM	2498	HB3	TYR	115	37.183	19.871	29.509	0.0295	1.200	H
ATOM	2499	CG	TYR	115	38.757	20.098	28.101	-0.0011	1.700	C
ATOM	2500	CD1	TYR	115	39.558	20.927	27.326	-0.1906	1.700	C
ATOM	2501	HD1	TYR	115	39.434	21.997	27.384	0.1699	1.200	H
ATOM	2502	CE1	TYR	115	40.545	20.414	26.498	-0.2341	1.700	C
ATOM	2503	HE1	TYR	115	41.166	21.079	25.916	0.1656	1.200	H
ATOM	2504	CZ	TYR	115	40.739	19.056	26.444	0.3226	1.700	C
ATOM	2505	OH	TYR	115	41.771	18.572	25.682	-0.5579	1.500	O
ATOM	2506	HH	TYR	115	41.849	17.617	25.736	0.3992	1.200	H
ATOM	2507	CE2	TYR	115	39.950	18.199	27.192	-0.2341	1.700	C
ATOM	2508	HE2	TYR	115	40.087	17.129	27.131	0.1656	1.200	H
ATOM	2509	CD2	TYR	115	38.960	18.724	28.016	-0.1906	1.700	C
ATOM	2510	HD2	TYR	115	38.362	18.054	28.618	0.1699	1.200	H
ATOM	2511	C	TYR	115	36.151	20.983	27.214	0.5973	1.700	C
ATOM	2512	O	TYR	115	36.506	21.246	26.059	-0.5679	1.500	O
ATOM	2513	N	HIS	116	35.234	20.066	27.496	-0.4157	1.550	N
ATOM	2514	H	HIS	116	34.974	19.887	28.452	0.2719	1.300	H
ATOM	2515	CA	HIS	116	34.564	19.337	26.434	-0.0581	1.700	C
ATOM	2516	HA	HIS	116	35.295	18.794	25.859	0.1360	1.200	H
ATOM	2517	CB	HIS	116	33.639	18.289	27.022	-0.0074	1.700	C
ATOM	2518	HB2	HIS	116	32.958	18.753	27.738	0.0367	1.200	H
ATOM	2519	HB3	HIS	116	33.041	17.856	26.219	0.0367	1.200	H
ATOM	2520	CG	HIS	116	34.367	17.175	27.689	0.1868	1.700	C
ATOM	2521	ND1	HIS	116	34.026	16.705	28.938	-0.5432	1.550	N
ATOM	2522	CE1	HIS	116	34.884	15.769	29.302	0.1635	1.700	C
ATOM	2523	HE1	HIS	116	34.864	15.228	30.236	0.1435	1.200	H
ATOM	2524	NE2	HIS	116	35.765	15.614	28.329	-0.2795	1.550	N
ATOM	2525	HE2	HIS	116	36.547	14.977	28.350	0.3339	1.300	H
ATOM	2526	CD2	HIS	116	35.463	16.479	27.307	-0.2207	1.700	C
ATOM	2527	HD2	HIS	116	36.018	16.612	26.390	0.1862	1.200	H
ATOM	2528	C	HIS	116	33.760	20.256	25.552	0.5973	1.700	C
ATOM	2529	O	HIS	116	33.891	20.244	24.319	-0.5679	1.500	O
ATOM	2530	N	THR	117	32.949	21.070	26.215	-0.4157	1.550	N
ATOM	2531	H	THR	117	32.941	21.017	27.222	0.2719	1.300	H

ATOM	2532	CA	THR	117	32.041	22.013	25.592	-0.0389	1.700	C
ATOM	2533	HA	THR	117	31.472	21.470	24.836	0.1007	1.200	H
ATOM	2534	CB	THR	117	31.044	22.480	26.668	0.3654	1.700	C
ATOM	2535	HB	THR	117	31.594	22.837	27.538	0.0043	1.200	H
ATOM	2536	CG2	THR	117	30.211	23.631	26.178	-0.2438	1.700	C
ATOM	2537	HG21	THR	117	29.159	23.418	26.373	0.0642	1.200	H
ATOM	2538	HG22	THR	117	30.428	24.526	26.744	0.0642	1.200	H
ATOM	2539	HG23	THR	117	30.261	23.813	25.106	0.0642	1.200	H
ATOM	2540	OG1	THR	117	30.208	21.376	27.066	-0.6761	1.500	O
ATOM	2541	HG1	THR	117	30.605	20.980	27.849	0.4102	1.200	H
ATOM	2542	C	THR	117	32.673	23.220	24.887	0.5973	1.700	C
ATOM	2543	O	THR	117	32.385	23.493	23.718	-0.5679	1.500	O
ATOM	2544	N	GLN	118	33.585	23.900	25.569	-0.4157	1.550	N
ATOM	2545	H	GLN	118	33.816	23.622	26.509	0.2719	1.300	H
ATOM	2546	CA	GLN	118	34.183	25.110	25.022	-0.0031	1.700	C
ATOM	2547	HA	GLN	118	33.651	25.391	24.114	0.0850	1.200	H
ATOM	2548	CB	GLN	118	33.977	26.265	26.004	-0.0036	1.700	C
ATOM	2549	HB2	GLN	118	34.494	26.023	26.931	0.0171	1.200	H
ATOM	2550	HB3	GLN	118	34.427	27.169	25.600	0.0171	1.200	H
ATOM	2551	CG	GLN	118	32.516	26.551	26.344	-0.0645	1.700	C
ATOM	2552	HG2	GLN	118	32.081	25.687	26.824	0.0352	1.200	H
ATOM	2553	HG3	GLN	118	32.498	27.366	27.066	0.0352	1.200	H
ATOM	2554	CD	GLN	118	31.734	26.999	25.123	0.6951	1.700	C
ATOM	2555	OE1	GLN	118	30.553	26.420	24.928	-0.6086	1.500	O
ATOM	2556	NE2	GLN	118	32.178	27.875	24.368	-0.9407	1.550	N
ATOM	2557	HE21	GLN	118	31.609	28.187	23.595	0.4251	1.300	H
ATOM	2558	HE22	GLN	118	33.070	28.301	24.560	0.4251	1.300	H
ATOM	2559	C	GLN	118	35.633	25.056	24.613	0.5973	1.700	C
ATOM	2560	O	GLN	118	36.112	26.000	24.006	-0.5679	1.500	O
ATOM	2561	N	GLY	119	36.356	24.001	24.987	-0.4157	1.550	N
ATOM	2562	H	GLY	119	35.928	23.237	25.494	0.2719	1.300	H
ATOM	2563	CA	GLY	119	37.764	23.885	24.599	-0.0252	1.700	C
ATOM	2564	HA2	GLY	119	38.020	22.826	24.576	0.0698	1.200	H
ATOM	2565	HA3	GLY	119	37.895	24.281	23.594	0.0698	1.200	H
ATOM	2566	C	GLY	119	38.786	24.591	25.477	0.5973	1.700	C
ATOM	2567	O	GLY	119	39.948	24.767	25.096	-0.5679	1.500	O
ATOM	2568	N	TYR	120	38.374	24.972	26.676	-0.4157	1.550	N
ATOM	2569	H	TYR	120	37.430	24.779	26.980	0.2719	1.300	H
ATOM	2570	CA	TYR	120	39.266	25.650	27.572	-0.0014	1.700	C
ATOM	2571	HA	TYR	120	40.035	26.186	27.023	0.0876	1.200	H
ATOM	2572	CB	TYR	120	38.491	26.674	28.412	-0.0152	1.700	C
ATOM	2573	HB2	TYR	120	37.664	26.180	28.918	0.0295	1.200	H
ATOM	2574	HB3	TYR	120	39.158	27.068	29.181	0.0295	1.200	H
ATOM	2575	CG	TYR	120	37.982	27.834	27.602	-0.0011	1.700	C
ATOM	2576	CD1	TYR	120	38.867	28.679	26.957	-0.1906	1.700	C
ATOM	2577	HD1	TYR	120	39.930	28.509	27.049	0.1699	1.200	H
ATOM	2578	CE1	TYR	120	38.409	29.722	26.138	-0.2341	1.700	C
ATOM	2579	HE1	TYR	120	39.114	30.360	25.627	0.1656	1.200	H
ATOM	2580	CZ	TYR	120	37.059	29.911	25.971	0.3226	1.700	C
ATOM	2581	OH	TYR	120	36.652	30.877	25.100	-0.5579	1.500	O
ATOM	2582	HH	TYR	120	37.382	31.397	24.759	0.3992	1.200	H
ATOM	2583	CE2	TYR	120	36.141	29.091	26.613	-0.2341	1.700	C
ATOM	2584	HE2	TYR	120	35.081	29.248	26.480	0.1656	1.200	H
ATOM	2585	CD2	TYR	120	36.610	28.054	27.426	-0.1906	1.700	C
ATOM	2586	HD2	TYR	120	35.902	27.424	27.943	0.1699	1.200	H
ATOM	2587	C	TYR	120	39.918	24.594	28.439	0.5973	1.700	C
ATOM	2588	O	TYR	120	39.277	24.014	29.321	-0.5679	1.500	O
ATOM	2589	N	PHE	121	41.197	24.337	28.178	-0.4157	1.550	N
ATOM	2590	H	PHE	121	41.667	24.850	27.447	0.2719	1.300	H
ATOM	2591	CA	PHE	121	41.957	23.329	28.917	-0.0024	1.700	C
ATOM	2592	HA	PHE	121	41.618	22.376	28.523	0.0978	1.200	H
ATOM	2593	CB	PHE	121	43.447	23.446	28.600	-0.0343	1.700	C
ATOM	2594	HB2	PHE	121	43.564	23.678	27.541	0.0295	1.200	H
ATOM	2595	HB3	PHE	121	43.879	24.278	29.159	0.0295	1.200	H
ATOM	2596	CG	PHE	121	44.217	22.195	28.891	0.0118	1.700	C
ATOM	2597	CD1	PHE	121	44.667	21.924	30.171	-0.1256	1.700	C
ATOM	2598	HD1	PHE	121	44.467	22.620	30.967	0.1330	1.200	H
ATOM	2599	CE1	PHE	121	45.314	20.755	30.448	-0.1704	1.700	C
ATOM	2600	HE1	PHE	121	45.639	20.556	31.458	0.1430	1.200	H
ATOM	2601	CZ	PHE	121	45.528	19.829	29.441	-0.1072	1.700	C
ATOM	2602	HZ	PHE	121	46.033	18.899	29.645	0.1297	1.200	H
ATOM	2603	CE2	PHE	121	45.090	20.086	28.164	-0.1704	1.700	C
ATOM	2604	HE2	PHE	121	45.219	19.344	27.388	0.1430	1.200	H
ATOM	2605	CD2	PHE	121	44.439	21.264	27.893	-0.1256	1.700	C
ATOM	2606	HD2	PHE	121	43.978	21.428	26.947	0.1330	1.200	H
ATOM	2607	C	PHE	121	41.693	23.463	30.410	0.5973	1.700	C
ATOM	2608	O	PHE	121	41.889	24.526	30.984	-0.5679	1.500	O

ATOM	2609	N	PRO	122	41.298	22.362	31.064	-0.2548	1.550	N
ATOM	2610	CD	PRO	122	41.219	21.025	30.447	0.0192	1.700	C
ATOM	2611	HD2	PRO	122	42.117	20.765	29.888	0.0391	1.200	H
ATOM	2612	HD3	PRO	122	40.341	20.962	29.825	0.0391	1.200	H
ATOM	2613	CG	PRO	122	41.085	20.117	31.645	0.0189	1.700	C
ATOM	2614	HG2	PRO	122	42.074	19.876	32.040	0.0213	1.200	H
ATOM	2615	HG3	PRO	122	40.550	19.203	31.387	0.0213	1.200	H
ATOM	2616	CB	PRO	122	40.342	20.911	32.616	-0.0070	1.700	C
ATOM	2617	HB2	PRO	122	40.379	20.474	33.614	0.0253	1.200	H
ATOM	2618	HB3	PRO	122	39.304	20.967	32.289	0.0253	1.200	H
ATOM	2619	CA	PRO	122	40.975	22.290	32.491	-0.0266	1.700	C
ATOM	2620	HA	PRO	122	40.203	23.033	32.696	0.0641	1.200	H
ATOM	2621	C	PRO	122	42.073	22.515	33.508	0.5896	1.700	C
ATOM	2622	O	PRO	122	42.171	21.780	34.484	-0.5748	1.500	O
ATOM	2623	N	ASP	123	42.811	23.608	33.365	-0.5163	1.550	N
ATOM	2624	H	ASP	123	42.686	24.216	32.570	0.2936	1.300	H
ATOM	2625	CA	ASP	123	43.896	23.913	34.293	0.0381	1.700	C
ATOM	2626	HA	ASP	123	43.771	23.366	35.228	0.0880	1.200	H
ATOM	2627	CB	ASP	123	45.218	23.514	33.659	-0.0303	1.700	C
ATOM	2628	HB2	ASP	123	46.008	23.573	34.410	-0.0122	1.200	H
ATOM	2629	HB3	ASP	123	45.161	22.475	33.332	-0.0122	1.200	H
ATOM	2630	CG	ASP	123	45.593	24.386	32.478	0.7994	1.700	C
ATOM	2631	OD1	ASP	123	44.743	25.172	31.992	-0.8014	1.500	O
ATOM	2632	OD2	ASP	123	46.755	24.279	32.033	-0.8014	1.500	O
ATOM	2633	C	ASP	123	43.956	25.393	34.630	0.5366	1.700	C
ATOM	2634	O	ASP	123	45.022	25.927	34.927	-0.5819	1.500	O
ATOM	2635	N	TRP	124	42.815	26.056	34.597	-0.4157	1.550	N
ATOM	2636	H	TRP	124	41.960	25.583	34.342	0.2719	1.300	H
ATOM	2637	CA	TRP	124	42.790	27.481	34.834	-0.0275	1.700	C
ATOM	2638	HA	TRP	124	43.798	27.893	34.887	0.1123	1.200	H
ATOM	2639	CB	TRP	124	42.094	28.158	33.656	-0.0050	1.700	C
ATOM	2640	HB2	TRP	124	42.067	29.235	33.823	0.0339	1.200	H
ATOM	2641	HB3	TRP	124	42.677	27.977	32.751	0.0339	1.200	H
ATOM	2642	CG	TRP	124	40.695	27.658	33.438	-0.1415	1.700	C
ATOM	2643	CD1	TRP	124	40.296	26.664	32.580	-0.1638	1.700	C
ATOM	2644	HD1	TRP	124	40.938	26.219	31.869	0.2062	1.200	H
ATOM	2645	NE1	TRP	124	38.956	26.413	32.742	-0.3418	1.550	N
ATOM	2646	HE1	TRP	124	38.447	25.698	32.241	0.3412	1.300	H
ATOM	2647	CE2	TRP	124	38.458	27.258	33.703	0.1380	1.700	C
ATOM	2648	CZ2	TRP	124	37.160	27.386	34.209	-0.2601	1.700	C
ATOM	2649	HZ2	TRP	124	36.387	26.743	33.870	0.1572	1.200	H
ATOM	2650	CH2	TRP	124	36.951	28.330	35.177	-0.1134	1.700	C
ATOM	2651	HH2	TRP	124	35.966	28.429	35.604	0.1417	1.200	H
ATOM	2652	CZ3	TRP	124	37.992	29.145	35.647	-0.1972	1.700	C
ATOM	2653	HZ3	TRP	124	37.798	29.860	36.429	0.1447	1.200	H
ATOM	2654	CE3	TRP	124	39.276	29.023	35.148	-0.2387	1.700	C
ATOM	2655	HE3	TRP	124	40.066	29.654	35.518	0.1700	1.200	H
ATOM	2656	CD2	TRP	124	39.525	28.062	34.157	0.1243	1.700	C
ATOM	2657	C	TRP	124	42.086	27.848	36.113	0.5973	1.700	C
ATOM	2658	O	TRP	124	42.426	28.857	36.746	-0.5679	1.500	O
ATOM	2659	N	GLN	125	41.137	27.007	36.521	-0.4157	1.550	N
ATOM	2660	H	GLN	125	40.920	26.180	35.983	0.2719	1.300	H
ATOM	2661	CA	GLN	125	40.353	27.283	37.706	-0.0031	1.700	C
ATOM	2662	HA	GLN	125	40.093	28.341	37.671	0.0850	1.200	H
ATOM	2663	CB	GLN	125	39.021	26.514	37.691	-0.0036	1.700	C
ATOM	2664	HB2	GLN	125	38.558	26.652	36.717	0.0171	1.200	H
ATOM	2665	HB3	GLN	125	39.217	25.449	37.800	0.0171	1.200	H
ATOM	2666	CG	GLN	125	38.056	26.995	38.769	-0.0645	1.700	C
ATOM	2667	HG2	GLN	125	38.432	26.915	39.779	0.0352	1.200	H
ATOM	2668	HG3	GLN	125	37.864	28.055	38.600	0.0352	1.200	H
ATOM	2669	CD	GLN	125	36.715	26.289	38.766	0.6951	1.700	C
ATOM	2670	OE1	GLN	125	36.344	25.727	37.626	-0.6086	1.500	O
ATOM	2671	NE2	GLN	125	36.003	26.272	39.784	-0.9407	1.550	N
ATOM	2672	HE21	GLN	125	36.359	26.660	40.642	0.4251	1.300	H
ATOM	2673	HE22	GLN	125	35.112	25.803	39.742	0.4251	1.300	H
ATOM	2674	C	GLN	125	41.078	27.077	39.012	0.5973	1.700	C
ATOM	2675	O	GLN	125	40.596	26.359	39.888	-0.5679	1.500	O
ATOM	2676	N	ASN	126	42.202	27.760	39.186	-0.4157	1.550	N
ATOM	2677	H	ASN	126	42.565	28.370	38.471	0.2719	1.300	H
ATOM	2678	CA	ASN	126	42.954	27.640	40.426	0.0143	1.700	C
ATOM	2679	HA	ASN	126	42.754	26.684	40.914	0.1048	1.200	H
ATOM	2680	CB	ASN	126	44.439	27.733	40.137	-0.2041	1.700	C
ATOM	2681	HB2	ASN	126	44.672	28.756	39.841	0.0797	1.200	H
ATOM	2682	HB3	ASN	126	45.005	27.505	41.041	0.0797	1.200	H
ATOM	2683	CG	ASN	126	44.858	26.806	39.054	0.7130	1.700	C
ATOM	2684	OD1	ASN	126	44.605	25.606	39.129	-0.5931	1.500	O
ATOM	2685	ND2	ASN	126	45.464	27.350	38.005	-0.9191	1.550	N

ATOM	2686	HD21	ASN	126	45.623	28.343	37.967	0.4196	1.300	H
ATOM	2687	HD22	ASN	126	45.719	26.760	37.224	0.4196	1.300	H
ATOM	2688	C	ASN	126	42.565	28.788	41.334	0.5973	1.700	C
ATOM	2689	O	ASN	126	42.388	29.919	40.852	-0.5679	1.500	O
ATOM	2690	N	TYR	127	42.434	28.509	42.632	-0.4157	1.550	N
ATOM	2691	H	TYR	127	42.601	27.569	42.961	0.2719	1.300	H
ATOM	2692	CA	TYR	127	42.097	29.535	43.614	-0.0014	1.700	C
ATOM	2693	HA	TYR	127	41.820	30.462	43.115	0.0876	1.200	H
ATOM	2694	CB	TYR	127	40.915	29.088	44.462	-0.0152	1.700	C
ATOM	2695	HB2	TYR	127	41.151	28.167	44.997	0.0295	1.200	H
ATOM	2696	HB3	TYR	127	40.716	29.884	45.169	0.0295	1.200	H
ATOM	2697	CG	TYR	127	39.665	28.930	43.636	-0.0011	1.700	C
ATOM	2698	CD1	TYR	127	39.060	30.036	43.039	-0.1906	1.700	C
ATOM	2699	HD1	TYR	127	39.451	31.018	43.234	0.1699	1.200	H
ATOM	2700	CE1	TYR	127	37.942	29.892	42.217	-0.2341	1.700	C
ATOM	2701	HE1	TYR	127	37.456	30.753	41.797	0.1656	1.200	H
ATOM	2702	CZ	TYR	127	37.420	28.631	41.992	0.3226	1.700	C
ATOM	2703	OH	TYR	127	36.330	28.484	41.164	-0.5579	1.500	O
ATOM	2704	HH	TYR	127	36.024	29.320	40.823	0.3992	1.200	H
ATOM	2705	CE2	TYR	127	37.999	27.517	42.578	-0.2341	1.700	C
ATOM	2706	HE2	TYR	127	37.593	26.530	42.403	0.1656	1.200	H
ATOM	2707	CD2	TYR	127	39.116	27.673	43.395	-0.1906	1.700	C
ATOM	2708	HD2	TYR	127	39.590	26.792	43.806	0.1699	1.200	H
ATOM	2709	C	TYR	127	43.320	29.825	44.473	0.5973	1.700	C
ATOM	2710	O	TYR	127	44.352	29.186	44.288	-0.5679	1.500	O
ATOM	2711	N	THR	128	43.246	30.824	45.351	-0.4157	1.550	N
ATOM	2712	H	THR	128	42.404	31.376	45.432	0.2719	1.300	H
ATOM	2713	CA	THR	128	44.380	31.145	46.209	-0.0389	1.700	C
ATOM	2714	HA	THR	128	45.288	30.997	45.627	0.1007	1.200	H
ATOM	2715	CB	THR	128	44.366	32.607	46.709	0.3654	1.700	C
ATOM	2716	HB	THR	128	45.225	32.781	47.352	0.0043	1.200	H
ATOM	2717	CG2	THR	128	44.458	33.582	45.545	-0.2438	1.700	C
ATOM	2718	HG21	THR	128	45.044	34.445	45.844	0.0642	1.200	H
ATOM	2719	HG22	THR	128	44.938	33.118	44.688	0.0642	1.200	H
ATOM	2720	HG23	THR	128	43.484	33.961	45.294	0.0642	1.200	H
ATOM	2721	OG1	THR	128	43.179	32.842	47.474	-0.6761	1.500	O
ATOM	2722	HG1	THR	128	43.296	32.439	48.339	0.4102	1.200	H
ATOM	2723	C	THR	128	44.385	30.218	47.415	0.5973	1.700	C
ATOM	2724	O	THR	128	43.335	29.684	47.810	-0.5679	1.500	O
ATOM	2725	N	PRO	129	45.557	30.064	48.057	-0.2548	1.550	N
ATOM	2726	CD	PRO	129	46.804	30.794	47.793	0.0192	1.700	C
ATOM	2727	HD2	PRO	129	46.843	31.661	48.442	0.0391	1.200	H
ATOM	2728	HD3	PRO	129	46.959	31.058	46.749	0.0391	1.200	H
ATOM	2729	CG	PRO	129	47.801	29.802	48.220	0.0189	1.700	C
ATOM	2730	HG2	PRO	129	48.770	30.258	48.419	0.0213	1.200	H
ATOM	2731	HG3	PRO	129	47.880	28.991	47.493	0.0213	1.200	H
ATOM	2732	CB	PRO	129	47.217	29.308	49.505	-0.0070	1.700	C
ATOM	2733	HB2	PRO	129	47.422	30.034	50.296	0.0253	1.200	H
ATOM	2734	HB3	PRO	129	47.634	28.338	49.779	0.0253	1.200	H
ATOM	2735	CA	PRO	129	45.725	29.203	49.226	-0.0266	1.700	C
ATOM	2736	HA	PRO	129	45.444	28.177	48.986	0.0641	1.200	H
ATOM	2737	C	PRO	129	44.947	29.747	50.399	0.5896	1.700	C
ATOM	2738	O	PRO	129	44.924	30.962	50.626	-0.5748	1.500	O
ATOM	2739	N	GLY	130	44.326	28.850	51.153	-0.4157	1.550	N
ATOM	2740	H	GLY	130	44.398	27.866	50.943	0.2719	1.300	H
ATOM	2741	CA	GLY	130	43.566	29.277	52.309	-0.0252	1.700	C
ATOM	2742	HA2	GLY	130	42.964	30.153	52.065	0.0698	1.200	H
ATOM	2743	HA3	GLY	130	42.904	28.450	52.536	0.0698	1.200	H
ATOM	2744	C	GLY	130	44.422	29.566	53.537	0.5973	1.700	C
ATOM	2745	O	GLY	130	45.634	29.804	53.440	-0.5679	1.500	O
ATOM	2746	N	PRO	131	43.793	29.624	54.715	-0.2548	1.550	N
ATOM	2747	CD	PRO	131	44.441	29.811	56.022	0.0192	1.700	C
ATOM	2748	HD2	PRO	131	45.061	30.708	56.039	0.0391	1.200	H
ATOM	2749	HD3	PRO	131	45.025	28.926	56.278	0.0391	1.200	H
ATOM	2750	CG	PRO	131	43.255	29.954	56.953	0.0189	1.700	C
ATOM	2751	HG2	PRO	131	42.919	30.992	56.977	0.0213	1.200	H
ATOM	2752	HG3	PRO	131	43.503	29.619	57.960	0.0213	1.200	H
ATOM	2753	CB	PRO	131	42.219	29.085	56.331	-0.0070	1.700	C
ATOM	2754	HB2	PRO	131	41.243	29.312	56.749	0.0253	1.200	H
ATOM	2755	HB3	PRO	131	42.465	28.034	56.491	0.0253	1.200	H
ATOM	2756	CA	PRO	131	42.353	29.432	54.864	-0.0266	1.700	C
ATOM	2757	HA	PRO	131	41.960	28.608	54.274	0.0641	1.200	H
ATOM	2758	C	PRO	131	41.644	30.738	54.523	0.5896	1.700	C
ATOM	2759	O	PRO	131	42.278	31.700	54.097	-0.5748	1.500	O
ATOM	2760	N	GLY	132	40.345	30.796	54.774	-0.4157	1.550	N
ATOM	2761	H	GLY	132	39.855	30.006	55.170	0.2719	1.300	H
ATOM	2762	CA	GLY	132	39.594	31.990	54.435	-0.0252	1.700	C

ATOM	2763	HA2	GLY	132	38.757	32.093	55.126	0.0698	1.200	H
ATOM	2764	HA3	GLY	132	40.212	32.886	54.513	0.0698	1.200	H
ATOM	2765	C	GLY	132	39.052	31.847	53.023	0.5973	1.700	C
ATOM	2766	O	GLY	132	38.847	30.722	52.547	-0.5679	1.500	O
ATOM	2767	N	VAL	133	38.786	32.972	52.362	-0.4157	1.550	N
ATOM	2768	H	VAL	133	38.983	33.866	52.788	0.2719	1.300	H
ATOM	2769	CA	VAL	133	38.259	32.938	51.007	-0.0875	1.700	C
ATOM	2770	HA	VAL	133	37.605	32.077	50.949	0.0969	1.200	H
ATOM	2771	CB	VAL	133	37.420	34.210	50.665	0.2985	1.700	C
ATOM	2772	HB	VAL	133	38.006	35.101	50.899	-0.0297	1.200	H
ATOM	2773	CG1	VAL	133	37.050	34.245	49.205	-0.3192	1.700	C
ATOM	2774	HG11	VAL	133	36.670	35.245	49.011	0.0791	1.200	H
ATOM	2775	HG12	VAL	133	37.915	34.146	48.552	0.0791	1.200	H
ATOM	2776	HG13	VAL	133	36.291	33.514	48.947	0.0791	1.200	H
ATOM	2777	CG2	VAL	133	36.152	34.215	51.467	-0.3192	1.700	C
ATOM	2778	HG21	VAL	133	35.527	35.064	51.188	0.0791	1.200	H
ATOM	2779	HG22	VAL	133	35.631	33.294	51.323	0.0791	1.200	H
ATOM	2780	HG23	VAL	133	36.390	34.308	52.527	0.0791	1.200	H
ATOM	2781	C	VAL	133	39.417	32.752	50.037	0.5973	1.700	C
ATOM	2782	O	VAL	133	40.509	33.317	50.218	-0.5679	1.500	O
ATOM	2783	N	ARG	134	39.172	31.908	49.039	-0.3479	1.550	N
ATOM	2784	H	ARG	134	38.258	31.482	48.975	0.2747	1.300	H
ATOM	2785	CA	ARG	134	40.146	31.589	48.014	-0.2637	1.700	C
ATOM	2786	HA	ARG	134	41.143	31.870	48.344	0.1560	1.200	H
ATOM	2787	CB	ARG	134	40.120	30.090	47.727	-0.0007	1.700	C
ATOM	2788	HB2	ARG	134	39.391	29.847	46.966	0.0327	1.200	H
ATOM	2789	HB3	ARG	134	41.072	29.813	47.303	0.0327	1.200	H
ATOM	2790	CG	ARG	134	39.881	29.239	48.944	0.0390	1.700	C
ATOM	2791	HG2	ARG	134	38.846	29.340	49.274	0.0285	1.200	H
ATOM	2792	HG3	ARG	134	40.032	28.200	48.654	0.0285	1.200	H
ATOM	2793	CD	ARG	134	40.795	29.617	50.099	0.0486	1.700	C
ATOM	2794	HD2	ARG	134	41.832	29.452	49.811	0.0687	1.200	H
ATOM	2795	HD3	ARG	134	40.711	30.650	50.404	0.0687	1.200	H
ATOM	2796	NE	ARG	134	40.472	28.805	51.265	-0.5295	1.550	N
ATOM	2797	HE	ARG	134	39.940	29.239	52.009	0.3456	1.300	H
ATOM	2798	CZ	ARG	134	40.791	27.522	51.370	0.8076	1.700	C
ATOM	2799	NH1	ARG	134	41.458	26.925	50.384	-0.8627	1.550	N
ATOM	2800	HH11	ARG	134	41.723	27.459	49.570	0.4478	1.300	H
ATOM	2801	HH12	ARG	134	41.693	25.948	50.445	0.4478	1.300	H
ATOM	2802	NH2	ARG	134	40.370	26.815	52.411	-0.8627	1.550	N
ATOM	2803	HH21	ARG	134	39.820	27.274	53.126	0.4478	1.300	H
ATOM	2804	HH22	ARG	134	40.584	25.835	52.484	0.4478	1.300	H
ATOM	2805	C	ARG	134	39.744	32.341	46.772	0.7341	1.700	C
ATOM	2806	O	ARG	134	38.669	32.104	46.226	-0.5894	1.500	O
ATOM	2807	N	TYR	135	40.615	33.228	46.319	-0.4157	1.550	N
ATOM	2808	H	TYR	135	41.482	33.375	46.814	0.2719	1.300	H
ATOM	2809	CA	TYR	135	40.339	34.039	45.151	-0.0014	1.700	C
ATOM	2810	HA	TYR	135	39.258	34.146	45.073	0.0876	1.200	H
ATOM	2811	CB	TYR	135	40.902	35.456	45.332	-0.0152	1.700	C
ATOM	2812	HB2	TYR	135	41.978	35.430	45.479	0.0295	1.200	H
ATOM	2813	HB3	TYR	135	40.711	36.032	44.425	0.0295	1.200	H
ATOM	2814	CG	TYR	135	40.274	36.166	46.492	-0.0011	1.700	C
ATOM	2815	CD1	TYR	135	39.050	36.801	46.353	-0.1906	1.700	C
ATOM	2816	HD1	TYR	135	38.573	36.821	45.386	0.1699	1.200	H
ATOM	2817	CE1	TYR	135	38.425	37.381	47.438	-0.2341	1.700	C
ATOM	2818	HE1	TYR	135	37.471	37.873	47.316	0.1656	1.200	H
ATOM	2819	CZ	TYR	135	39.032	37.339	48.683	0.3226	1.700	C
ATOM	2820	OH	TYR	135	38.412	37.945	49.760	-0.5579	1.500	O
ATOM	2821	HH	TYR	135	38.916	37.846	50.570	0.3992	1.200	H
ATOM	2822	CE2	TYR	135	40.257	36.715	48.847	-0.2341	1.700	C
ATOM	2823	HE2	TYR	135	40.724	36.665	49.821	0.1656	1.200	H
ATOM	2824	CD2	TYR	135	40.869	36.137	47.755	-0.1906	1.700	C
ATOM	2825	HD2	TYR	135	41.814	35.629	47.887	0.1699	1.200	H
ATOM	2826	C	TYR	135	40.879	33.424	43.887	0.5973	1.700	C
ATOM	2827	O	TYR	135	41.999	32.921	43.872	-0.5679	1.500	O
ATOM	2828	N	PRO	136	40.106	33.503	42.790	-0.2548	1.550	N
ATOM	2829	CD	PRO	136	38.765	34.097	42.641	0.0192	1.700	C
ATOM	2830	HD2	PRO	136	38.698	35.071	43.126	0.0391	1.200	H
ATOM	2831	HD3	PRO	136	38.021	33.410	43.035	0.0391	1.200	H
ATOM	2832	CG	PRO	136	38.641	34.248	41.161	0.0189	1.700	C
ATOM	2833	HG2	PRO	136	39.167	35.143	40.824	0.0213	1.200	H
ATOM	2834	HG3	PRO	136	37.602	34.298	40.849	0.0213	1.200	H
ATOM	2835	CB	PRO	136	39.307	33.036	40.655	-0.0070	1.700	C
ATOM	2836	HB2	PRO	136	39.543	33.088	39.591	0.0253	1.200	H
ATOM	2837	HB3	PRO	136	38.756	32.148	40.916	0.0253	1.200	H
ATOM	2838	CA	PRO	136	40.555	32.933	41.532	-0.0266	1.700	C
ATOM	2839	HA	PRO	136	40.812	31.882	41.662	0.0641	1.200	H

ATOM	2840	C	PRO	136	41.754	33.674	40.962	0.5896	1.700	C
ATOM	2841	O	PRO	136	41.845	34.909	41.031	-0.5748	1.500	O
ATOM	2842	N	LEU	137	42.707	32.901	40.453	-0.4157	1.550	N
ATOM	2843	H	LEU	137	42.600	31.896	40.457	0.2719	1.300	H
ATOM	2844	CA	LEU	137	43.903	33.473	39.856	-0.0518	1.700	C
ATOM	2845	HA	LEU	137	44.259	34.293	40.479	0.0922	1.200	H
ATOM	2846	CB	LEU	137	45.006	32.418	39.747	-0.1102	1.700	C
ATOM	2847	HB2	LEU	137	44.685	31.691	38.998	0.0457	1.200	H
ATOM	2848	HB3	LEU	137	45.878	32.925	39.329	0.0457	1.200	H
ATOM	2849	CG	LEU	137	45.461	31.620	40.968	0.3531	1.700	C
ATOM	2850	HG	LEU	137	44.682	30.931	41.286	-0.0361	1.200	H
ATOM	2851	CD1	LEU	137	46.683	30.838	40.558	-0.4121	1.700	C
ATOM	2852	HD11	LEU	137	46.995	30.188	41.377	0.1000	1.200	H
ATOM	2853	HD12	LEU	137	46.467	30.219	39.687	0.1000	1.200	H
ATOM	2854	HD13	LEU	137	47.506	31.512	40.315	0.1000	1.200	H
ATOM	2855	CD2	LEU	137	45.813	32.520	42.105	-0.4121	1.700	C
ATOM	2856	HD21	LEU	137	46.286	31.947	42.903	0.1000	1.200	H
ATOM	2857	HD22	LEU	137	46.461	33.319	41.752	0.1000	1.200	H
ATOM	2858	HD23	LEU	137	44.893	32.955	42.489	0.1000	1.200	H
ATOM	2859	C	LEU	137	43.570	34.012	38.467	0.5973	1.700	C
ATOM	2860	O	LEU	137	44.204	34.953	37.986	-0.5679	1.500	O
ATOM	2861	N	THR	138	42.603	33.381	37.809	-0.4157	1.550	N
ATOM	2862	H	THR	138	42.143	32.586	38.228	0.2719	1.300	H
ATOM	2863	CA	THR	138	42.173	33.802	36.481	-0.0389	1.700	C
ATOM	2864	HA	THR	138	43.043	33.990	35.849	0.1007	1.200	H
ATOM	2865	CB	THR	138	41.278	32.732	35.812	0.3654	1.700	C
ATOM	2866	HB	THR	138	40.375	32.581	36.405	0.0043	1.200	H
ATOM	2867	CG2	THR	138	40.888	33.150	34.401	-0.2438	1.700	C
ATOM	2868	HG21	THR	138	40.278	32.367	33.952	0.0642	1.200	H
ATOM	2869	HG22	THR	138	40.298	34.067	34.421	0.0642	1.200	H
ATOM	2870	HG23	THR	138	41.780	33.307	33.794	0.0642	1.200	H
ATOM	2871	OG1	THR	138	41.986	31.492	35.746	-0.6761	1.500	O
ATOM	2872	HG1	THR	138	41.405	30.823	35.379	0.4102	1.200	H
ATOM	2873	C	THR	138	41.360	35.074	36.658	0.5973	1.700	C
ATOM	2874	O	THR	138	40.255	35.038	37.177	-0.5679	1.500	O
ATOM	2875	N	PHE	139	41.940	36.206	36.296	-0.4157	1.550	N
ATOM	2876	H	PHE	139	42.873	36.197	35.910	0.2719	1.300	H
ATOM	2877	CA	PHE	139	41.250	37.479	36.411	-0.0024	1.700	C
ATOM	2878	HA	PHE	139	40.904	37.606	37.436	0.0978	1.200	H
ATOM	2879	CB	PHE	139	42.181	38.616	35.983	-0.0343	1.700	C
ATOM	2880	HB2	PHE	139	43.050	38.593	36.606	0.0295	1.200	H
ATOM	2881	HB3	PHE	139	42.514	38.447	34.957	0.0295	1.200	H
ATOM	2882	CG	PHE	139	41.568	39.979	36.091	0.0118	1.700	C
ATOM	2883	CD1	PHE	139	40.710	40.293	37.143	-0.1256	1.700	C
ATOM	2884	HD1	PHE	139	40.476	39.569	37.906	0.1330	1.200	H
ATOM	2885	CE1	PHE	139	40.175	41.559	37.271	-0.1704	1.700	C
ATOM	2886	HE1	PHE	139	39.529	41.799	38.101	0.1430	1.200	H
ATOM	2887	CZ	PHE	139	40.492	42.534	36.342	-0.1072	1.700	C
ATOM	2888	HZ	PHE	139	40.083	43.530	36.443	0.1297	1.200	H
ATOM	2889	CE2	PHE	139	41.347	42.233	35.282	-0.1704	1.700	C
ATOM	2890	HE2	PHE	139	41.589	42.992	34.552	0.1430	1.200	H
ATOM	2891	CD2	PHE	139	41.878	40.958	35.162	-0.1256	1.700	C
ATOM	2892	HD2	PHE	139	42.550	40.738	34.346	0.1330	1.200	H
ATOM	2893	C	PHE	139	40.099	37.412	35.437	0.5973	1.700	C
ATOM	2894	O	PHE	139	40.324	37.157	34.254	-0.5679	1.500	O
ATOM	2895	N	GLY	140	38.884	37.638	35.923	-0.4157	1.550	N
ATOM	2896	H	GLY	140	38.750	37.861	36.899	0.2719	1.300	H
ATOM	2897	CA	GLY	140	37.737	37.599	35.047	-0.0252	1.700	C
ATOM	2898	HA2	GLY	140	37.198	38.540	35.149	0.0698	1.200	H
ATOM	2899	HA3	GLY	140	38.022	37.497	34.000	0.0698	1.200	H
ATOM	2900	C	GLY	140	36.791	36.477	35.389	0.5973	1.700	C
ATOM	2901	O	GLY	140	35.678	36.430	34.870	-0.5679	1.500	O
ATOM	2902	N	TRP	141	37.259	35.524	36.185	-0.4157	1.550	N
ATOM	2903	H	TRP	141	38.196	35.593	36.556	0.2719	1.300	H
ATOM	2904	CA	TRP	141	36.424	34.403	36.622	-0.0275	1.700	C
ATOM	2905	HA	TRP	141	35.679	34.133	35.873	0.1123	1.200	H
ATOM	2906	CB	TRP	141	37.300	33.178	36.980	-0.0050	1.700	C
ATOM	2907	HB2	TRP	141	37.750	32.788	36.067	0.0339	1.200	H
ATOM	2908	HB3	TRP	141	38.110	33.501	37.633	0.0339	1.200	H
ATOM	2909	CG	TRP	141	36.564	32.052	37.668	-0.1415	1.700	C
ATOM	2910	CD1	TRP	141	36.752	31.614	38.953	-0.1638	1.700	C
ATOM	2911	HD1	TRP	141	37.355	32.109	39.655	0.2062	1.200	H
ATOM	2912	NE1	TRP	141	35.893	30.575	39.230	-0.3418	1.550	N
ATOM	2913	HE1	TRP	141	35.762	30.189	40.146	0.3412	1.300	H
ATOM	2914	CE2	TRP	141	35.133	30.315	38.119	0.1380	1.700	C
ATOM	2915	CZ2	TRP	141	34.135	29.355	37.915	-0.2601	1.700	C
ATOM	2916	HZ2	TRP	141	33.868	28.651	38.690	0.1572	1.200	H

ATOM	2917	CH2	TRP	141	33.528	29.315	36.683	-0.1134	1.700	C
ATOM	2918	HH2	TRP	141	32.797	28.552	36.499	0.1417	1.200	H
ATOM	2919	CZ3	TRP	141	33.892	30.211	35.653	-0.1972	1.700	C
ATOM	2920	HZ3	TRP	141	33.411	30.137	34.688	0.1447	1.200	H
ATOM	2921	CE3	TRP	141	34.892	31.176	35.859	-0.2387	1.700	C
ATOM	2922	HE3	TRP	141	35.167	31.862	35.069	0.1700	1.200	H
ATOM	2923	CD2	TRP	141	35.527	31.230	37.112	0.1243	1.700	C
ATOM	2924	C	TRP	141	35.761	35.001	37.858	0.5973	1.700	C
ATOM	2925	O	TRP	141	36.451	35.384	38.817	-0.5679	1.500	O
ATOM	2926	N	CYS	142	34.441	35.141	37.822	-0.4157	1.550	N
ATOM	2927	H	CYS	142	33.921	34.860	37.005	0.2719	1.300	H
ATOM	2928	CA	CYS	142	33.720	35.766	38.939	0.0213	1.700	C
ATOM	2929	HA	CYS	142	34.389	36.494	39.385	0.1124	1.200	H
ATOM	2930	CB	CYS	142	32.523	36.579	38.430	-0.1231	1.700	C
ATOM	2931	HB2	CYS	142	31.825	35.910	37.930	0.1112	1.200	H
ATOM	2932	HB3	CYS	142	32.003	37.050	39.265	0.1112	1.200	H
ATOM	2933	SG	CYS	142	33.002	37.885	37.286	-0.3119	1.800	S
ATOM	2934	HG	CYS	142	33.575	38.678	38.202	0.1933	1.200	H
ATOM	2935	C	CYS	142	33.294	34.875	40.077	0.5973	1.700	C
ATOM	2936	O	CYS	142	32.340	35.193	40.776	-0.5679	1.500	O
ATOM	2937	N	TYR	143	33.967	33.745	40.257	-0.4157	1.550	N
ATOM	2938	H	TYR	143	34.754	33.520	39.666	0.2719	1.300	H
ATOM	2939	CA	TYR	143	33.648	32.861	41.371	-0.0014	1.700	C
ATOM	2940	HA	TYR	143	32.780	33.221	41.925	0.0876	1.200	H
ATOM	2941	CB	TYR	143	33.321	31.470	40.887	-0.0152	1.700	C
ATOM	2942	HB2	TYR	143	33.908	31.262	40.042	0.0295	1.200	H
ATOM	2943	HB3	TYR	143	33.507	30.740	41.670	0.0295	1.200	H
ATOM	2944	CG	TYR	143	31.922	31.360	40.402	-0.0011	1.700	C
ATOM	2945	CD1	TYR	143	30.900	31.045	41.277	-0.1906	1.700	C
ATOM	2946	HD1	TYR	143	31.124	30.849	42.317	0.1699	1.200	H
ATOM	2947	CE1	TYR	143	29.576	31.003	40.851	-0.2341	1.700	C
ATOM	2948	HE1	TYR	143	28.783	30.784	41.554	0.1656	1.200	H
ATOM	2949	CZ	TYR	143	29.285	31.275	39.532	0.3226	1.700	C
ATOM	2950	OH	TYR	143	27.983	31.274	39.115	-0.5579	1.500	O
ATOM	2951	HH	TYR	143	27.892	31.483	38.183	0.3992	1.200	H
ATOM	2952	CE2	TYR	143	30.295	31.580	38.635	-0.2341	1.700	C
ATOM	2953	HE2	TYR	143	30.061	31.788	37.604	0.1656	1.200	H
ATOM	2954	CD2	TYR	143	31.607	31.624	39.079	-0.1906	1.700	C
ATOM	2955	HD2	TYR	143	32.388	31.894	38.381	0.1699	1.200	H
ATOM	2956	C	TYR	143	34.803	32.803	42.336	0.5973	1.700	C
ATOM	2957	O	TYR	143	35.958	32.751	41.925	-0.5679	1.500	O
ATOM	2958	N	LYS	144	34.487	32.899	43.617	-0.3479	1.550	N
ATOM	2959	H	LYS	144	33.515	32.970	43.887	0.2747	1.300	H
ATOM	2960	CA	LYS	144	35.482	32.833	44.679	-0.2400	1.700	C
ATOM	2961	HA	LYS	144	36.481	32.618	44.302	0.1426	1.200	H
ATOM	2962	CB	LYS	144	35.488	34.128	45.493	-0.0094	1.700	C
ATOM	2963	HB2	LYS	144	36.213	34.002	46.298	0.0362	1.200	H
ATOM	2964	HB3	LYS	144	35.842	34.946	44.884	0.0362	1.200	H
ATOM	2965	CG	LYS	144	34.134	34.427	46.105	0.0187	1.700	C
ATOM	2966	HG2	LYS	144	33.531	34.898	45.337	0.0103	1.200	H
ATOM	2967	HG3	LYS	144	33.649	33.534	46.476	0.0103	1.200	H
ATOM	2968	CD	LYS	144	34.200	35.420	47.258	-0.0479	1.700	C
ATOM	2969	HD2	LYS	144	33.195	35.478	47.680	0.0621	1.200	H
ATOM	2970	HD3	LYS	144	34.854	35.060	48.032	0.0621	1.200	H
ATOM	2971	CE	LYS	144	34.587	36.810	46.811	-0.0143	1.700	C
ATOM	2972	HE2	LYS	144	35.645	36.825	46.547	0.1135	1.200	H
ATOM	2973	HE3	LYS	144	34.004	37.069	45.927	0.1135	1.200	H
ATOM	2974	NZ	LYS	144	34.314	37.814	47.886	-0.3854	1.550	N
ATOM	2975	HZ1	LYS	144	33.329	37.808	48.109	0.3400	1.300	H
ATOM	2976	HZ2	LYS	144	34.861	37.600	48.707	0.3400	1.300	H
ATOM	2977	HZ3	LYS	144	34.550	38.737	47.543	0.3400	1.300	H
ATOM	2978	C	LYS	144	35.010	31.676	45.559	0.7341	1.700	C
ATOM	2979	O	LYS	144	33.867	31.212	45.413	-0.5894	1.500	O
ATOM	2980	N	LEU	145	35.884	31.186	46.436	-0.4157	1.550	N
ATOM	2981	H	LEU	145	36.814	31.575	46.495	0.2719	1.300	H
ATOM	2982	CA	LEU	145	35.520	30.091	47.334	-0.0518	1.700	C
ATOM	2983	HA	LEU	145	34.553	29.673	47.061	0.0922	1.200	H
ATOM	2984	CB	LEU	145	36.555	28.960	47.270	-0.1102	1.700	C
ATOM	2985	HB2	LEU	145	37.517	29.390	47.466	0.0457	1.200	H
ATOM	2986	HB3	LEU	145	36.334	28.270	48.078	0.0457	1.200	H
ATOM	2987	CG	LEU	145	36.581	28.169	45.957	0.3531	1.700	C
ATOM	2988	HG	LEU	145	36.824	28.841	45.132	-0.0361	1.200	H
ATOM	2989	CD1	LEU	145	37.649	27.134	46.059	-0.4121	1.700	C
ATOM	2990	HD11	LEU	145	37.632	26.489	45.182	0.1000	1.200	H
ATOM	2991	HD12	LEU	145	38.627	27.603	46.159	0.1000	1.200	H
ATOM	2992	HD13	LEU	145	37.468	26.497	46.923	0.1000	1.200	H
ATOM	2993	CD2	LEU	145	35.236	27.507	45.671	-0.4121	1.700	C

ATOM	2994	HD21	LEU	145	35.324	26.835	44.816	0.1000	1.200	H
ATOM	2995	HD22	LEU	145	34.899	26.939	46.539	0.1000	1.200	H
ATOM	2996	HD23	LEU	145	34.495	28.262	45.420	0.1000	1.200	H
ATOM	2997	C	LEU	145	35.390	30.638	48.744	0.5973	1.700	C
ATOM	2998	O	LEU	145	36.353	31.165	49.305	-0.5679	1.500	O
ATOM	2999	N	VAL	146	34.191	30.545	49.307	-0.4157	1.550	N
ATOM	3000	H	VAL	146	33.419	30.125	48.814	0.2719	1.300	H
ATOM	3001	CA	VAL	146	33.965	31.085	50.641	-0.0875	1.700	C
ATOM	3002	HA	VAL	146	34.862	31.577	50.936	0.0969	1.200	H
ATOM	3003	CB	VAL	146	32.851	32.162	50.637	0.2985	1.700	C
ATOM	3004	HB	VAL	146	31.922	31.697	50.316	-0.0297	1.200	H
ATOM	3005	CG1	VAL	146	32.651	32.717	52.038	-0.3192	1.700	C
ATOM	3006	HG11	VAL	146	31.927	33.532	52.006	0.0791	1.200	H
ATOM	3007	HG12	VAL	146	32.250	31.953	52.705	0.0791	1.200	H
ATOM	3008	HG13	VAL	146	33.585	33.098	52.446	0.0791	1.200	H
ATOM	3009	CG2	VAL	146	33.210	33.291	49.689	-0.3192	1.700	C
ATOM	3010	HG21	VAL	146	32.399	34.019	49.675	0.0791	1.200	H
ATOM	3011	HG22	VAL	146	34.114	33.802	49.973	0.0791	1.200	H
ATOM	3012	HG23	VAL	146	33.327	32.901	48.681	0.0791	1.200	H
ATOM	3013	C	VAL	146	33.617	30.022	51.660	0.5973	1.700	C
ATOM	3014	O	VAL	146	32.620	29.311	51.510	-0.5679	1.500	O
ATOM	3015	N	PRO	147	34.437	29.905	52.720	-0.2548	1.550	N
ATOM	3016	CD	PRO	147	35.594	30.756	53.037	0.0192	1.700	C
ATOM	3017	HD2	PRO	147	35.461	31.797	52.773	0.0391	1.200	H
ATOM	3018	HD3	PRO	147	36.491	30.329	52.597	0.0391	1.200	H
ATOM	3019	CG	PRO	147	35.623	30.684	54.525	0.0189	1.700	C
ATOM	3020	HG2	PRO	147	34.845	31.316	54.957	0.0213	1.200	H
ATOM	3021	HG3	PRO	147	36.600	30.968	54.915	0.0213	1.200	H
ATOM	3022	CB	PRO	147	35.344	29.249	54.772	-0.0070	1.700	C
ATOM	3023	HB2	PRO	147	35.043	29.069	55.805	0.0253	1.200	H
ATOM	3024	HB3	PRO	147	36.230	28.657	54.536	0.0253	1.200	H
ATOM	3025	CA	PRO	147	34.223	28.925	53.781	-0.0266	1.700	C
ATOM	3026	HA	PRO	147	34.366	27.945	53.371	0.0641	1.200	H
ATOM	3027	C	PRO	147	32.838	29.088	54.396	0.5896	1.700	C
ATOM	3028	O	PRO	147	32.497	30.165	54.887	-0.5748	1.500	O
ATOM	3029	N	VAL	148	32.032	28.032	54.287	-0.3821	1.550	N
ATOM	3030	H	VAL	148	32.380	27.199	53.835	0.2681	1.300	H
ATOM	3031	CA	VAL	148	30.668	27.979	54.805	-0.3438	1.700	C
ATOM	3032	HA	VAL	148	30.629	28.409	55.806	0.1438	1.200	H
ATOM	3033	CB	VAL	148	29.652	28.712	53.869	0.1940	1.700	C
ATOM	3034	HB	VAL	148	29.907	29.773	53.833	0.0308	1.200	H
ATOM	3035	CG1	VAL	148	29.729	28.114	52.468	-0.3064	1.700	C
ATOM	3036	HG11	VAL	148	28.920	27.437	52.697	0.0836	1.200	H
ATOM	3037	HG12	VAL	148	29.471	28.982	51.875	0.0836	1.200	H
ATOM	3038	HG13	VAL	148	30.748	27.763	52.297	0.0836	1.200	H
ATOM	3039	CG2	VAL	148	28.240	28.541	54.418	-0.3064	1.700	C
ATOM	3040	HG21	VAL	148	28.181	29.033	55.389	0.0836	1.200	H
ATOM	3041	HG22	VAL	148	27.525	29.023	53.752	0.0836	1.200	H
ATOM	3042	HG23	VAL	148	27.940	27.500	54.553	0.0836	1.200	H
ATOM	3043	C	VAL	148	30.259	26.511	54.877	0.8350	1.700	C
ATOM	3044	O	VAL	148	29.886	25.904	53.863	-0.8173	1.500	O
ATOM	3045	OXT	VAL	148	30.280	25.910	55.949	-0.8173	1.500	O
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ATOM	3046	N	ARG	178	41.130	21.632	56.968	0.1305	1.550	N
ATOM	3047	H1	ARG	178	41.126	22.477	57.524	0.2083	1.300	H
ATOM	3048	H2	ARG	178	42.085	21.345	56.802	0.2083	1.300	H
ATOM	3049	H3	ARG	178	40.645	20.902	57.474	0.2083	1.300	H
ATOM	3050	CA	ARG	178	40.453	21.875	55.696	-0.0223	1.700	C
ATOM	3051	HA	ARG	178	41.058	22.555	55.095	0.1242	1.200	H
ATOM	3052	CB	ARG	178	40.260	20.559	54.928	0.0118	1.700	C
ATOM	3053	HB2	ARG	178	41.236	20.118	54.718	0.0226	1.200	H
ATOM	3054	HB3	ARG	178	39.676	19.860	55.530	0.0226	1.200	H
ATOM	3055	CG	ARG	178	39.534	20.838	53.616	0.0236	1.700	C
ATOM	3056	HG2	ARG	178	38.546	21.260	53.799	0.0309	1.200	H
ATOM	3057	HG3	ARG	178	40.119	21.533	53.011	0.0309	1.200	H
ATOM	3058	CD	ARG	178	39.343	19.531	52.853	0.0935	1.700	C
ATOM	3059	HD2	ARG	178	40.319	19.086	52.652	0.0527	1.200	H
ATOM	3060	HD3	ARG	178	38.757	18.843	53.464	0.0527	1.200	H
ATOM	3061	NE	ARG	178	38.640	19.763	51.572	-0.5650	1.550	N
ATOM	3062	HE	ARG	178	38.344	20.705	51.361	0.3592	1.300	H
ATOM	3063	CZ	ARG	178	38.350	18.786	50.718	0.8281	1.700	C
ATOM	3064	NH1	ARG	178	38.674	17.519	50.960	-0.8693	1.550	N
ATOM	3065	HH11	ARG	178	38.560	16.826	50.250	0.4494	1.300	H
ATOM	3066	HH12	ARG	178	39.122	17.242	51.817	0.4494	1.300	H
ATOM	3067	NH2	ARG	178	37.715	19.107	49.594	-0.8693	1.550	N
ATOM	3068	HH21	ARG	178	37.492	20.071	49.391	0.4494	1.300	H
ATOM	3069	HH22	ARG	178	37.446	18.380	48.948	0.4494	1.300	H

ATOM	3070	C	ARG	178	39.097	22.526	55.951	0.7214	1.700	C
ATOM	3071	O	ARG	178	38.273	21.995	56.709	-0.6013	1.500	O
ATOM	3072	N	GLU	179	38.872	23.682	55.334	-0.5163	1.550	N
ATOM	3073	H	GLU	179	39.569	24.088	54.728	0.2936	1.300	H
ATOM	3074	CA	GLU	179	37.611	24.393	55.509	0.0397	1.700	C
ATOM	3075	HA	GLU	179	37.215	24.226	56.513	0.1105	1.200	H
ATOM	3076	CB	GLU	179	37.803	25.898	55.310	0.0560	1.700	C
ATOM	3077	HB2	GLU	179	37.984	26.071	54.248	-0.0173	1.200	H
ATOM	3078	HB3	GLU	179	36.871	26.402	55.570	-0.0173	1.200	H
ATOM	3079	CG	GLU	179	38.933	26.555	56.073	0.0136	1.700	C
ATOM	3080	HG2	GLU	179	38.741	26.466	57.144	-0.0425	1.200	H
ATOM	3081	HG3	GLU	179	39.874	26.049	55.851	-0.0425	1.200	H
ATOM	3082	CD	GLU	179	39.087	28.020	55.693	0.8054	1.700	C
ATOM	3083	OE1	GLU	179	39.480	28.290	54.542	-0.8188	1.500	O
ATOM	3084	OE2	GLU	179	38.800	28.907	56.528	-0.8188	1.500	O
ATOM	3085	C	GLU	179	36.606	23.926	54.468	0.5366	1.700	C
ATOM	3086	O	GLU	179	36.979	23.575	53.346	-0.5819	1.500	O
ATOM	3087	N	VAL	180	35.337	23.904	54.845	-0.4157	1.550	N
ATOM	3088	H	VAL	180	35.071	24.213	55.769	0.2719	1.300	H
ATOM	3089	CA	VAL	180	34.293	23.544	53.904	-0.0875	1.700	C
ATOM	3090	HA	VAL	180	34.613	22.755	53.221	0.0969	1.200	H
ATOM	3091	CB	VAL	180	32.992	23.151	54.613	0.2985	1.700	C
ATOM	3092	HB	VAL	180	32.647	23.971	55.245	-0.0297	1.200	H
ATOM	3093	CG1	VAL	180	31.905	22.852	53.594	-0.3192	1.700	C
ATOM	3094	HG11	VAL	180	30.993	22.562	54.117	0.0791	1.200	H
ATOM	3095	HG12	VAL	180	31.691	23.744	53.006	0.0791	1.200	H
ATOM	3096	HG13	VAL	180	32.217	22.044	52.933	0.0791	1.200	H
ATOM	3097	CG2	VAL	180	33.230	21.947	55.502	-0.3192	1.700	C
ATOM	3098	HG21	VAL	180	32.284	21.454	55.737	0.0791	1.200	H
ATOM	3099	HG22	VAL	180	33.891	21.231	55.008	0.0791	1.200	H
ATOM	3100	HG23	VAL	180	33.686	22.271	56.440	0.0791	1.200	H
ATOM	3101	C	VAL	180	34.062	24.857	53.174	0.5973	1.700	C
ATOM	3102	O	VAL	180	33.764	25.870	53.811	-0.5679	1.500	O
ATOM	3103	N	LEU	181	34.243	24.842	51.855	-0.4157	1.550	N
ATOM	3104	H	LEU	181	34.466	23.969	51.403	0.2719	1.300	H
ATOM	3105	CA	LEU	181	34.085	26.022	51.010	-0.0518	1.700	C
ATOM	3106	HA	LEU	181	33.993	26.915	51.623	0.0922	1.200	H
ATOM	3107	CB	LEU	181	35.314	26.179	50.111	-0.1102	1.700	C
ATOM	3108	HB2	LEU	181	35.284	25.380	49.372	0.0457	1.200	H
ATOM	3109	HB3	LEU	181	35.218	27.122	49.575	0.0457	1.200	H
ATOM	3110	CG	LEU	181	36.677	26.128	50.802	0.3531	1.700	C
ATOM	3111	HG	LEU	181	36.754	25.219	51.392	-0.0361	1.200	H
ATOM	3112	CD1	LEU	181	37.780	26.065	49.775	-0.4121	1.700	C
ATOM	3113	HD11	LEU	181	38.729	25.882	50.273	0.1000	1.200	H
ATOM	3114	HD12	LEU	181	37.597	25.248	49.076	0.1000	1.200	H
ATOM	3115	HD13	LEU	181	37.840	27.005	49.231	0.1000	1.200	H
ATOM	3116	CD2	LEU	181	36.850	27.323	51.722	-0.4121	1.700	C
ATOM	3117	HD21	LEU	181	37.863	27.367	52.106	0.1000	1.200	H
ATOM	3118	HD22	LEU	181	36.632	28.251	51.192	0.1000	1.200	H
ATOM	3119	HD23	LEU	181	36.183	27.217	52.572	0.1000	1.200	H
ATOM	3120	C	LEU	181	32.850	25.925	50.132	0.5973	1.700	C
ATOM	3121	O	LEU	181	32.410	24.832	49.793	-0.5679	1.500	O
ATOM	3122	N	GLU	182	32.308	27.083	49.765	-0.5163	1.550	N
ATOM	3123	H	GLU	182	32.699	27.944	50.119	0.2936	1.300	H
ATOM	3124	CA	GLU	182	31.143	27.194	48.890	0.0397	1.700	C
ATOM	3125	HA	GLU	182	30.859	26.221	48.499	0.1105	1.200	H
ATOM	3126	CB	GLU	182	29.969	27.828	49.618	0.0560	1.700	C
ATOM	3127	HB2	GLU	182	30.307	28.777	50.029	-0.0173	1.200	H
ATOM	3128	HB3	GLU	182	29.260	28.082	48.827	-0.0173	1.200	H
ATOM	3129	CG	GLU	182	29.276	26.954	50.620	0.0136	1.700	C
ATOM	3130	HG2	GLU	182	29.113	26.109	49.952	-0.0425	1.200	H
ATOM	3131	HG3	GLU	182	29.822	26.225	51.228	-0.0425	1.200	H
ATOM	3132	CD	GLU	182	27.804	27.312	50.764	0.8054	1.700	C
ATOM	3133	OE1	GLU	182	27.406	28.413	50.318	-0.8188	1.500	O
ATOM	3134	OE2	GLU	182	27.030	26.473	51.281	-0.8188	1.500	O
ATOM	3135	C	GLU	182	31.510	28.129	47.750	0.5366	1.700	C
ATOM	3136	O	GLU	182	32.185	29.144	47.973	-0.5819	1.500	O
ATOM	3137	N	TRP	183	31.079	27.792	46.540	-0.4157	1.550	N
ATOM	3138	H	TRP	183	30.502	26.970	46.423	0.2719	1.300	H
ATOM	3139	CA	TRP	183	31.346	28.626	45.374	-0.0275	1.700	C
ATOM	3140	HA	TRP	183	32.392	28.928	45.338	0.1123	1.200	H
ATOM	3141	CB	TRP	183	30.966	27.891	44.103	-0.0050	1.700	C
ATOM	3142	HB2	TRP	183	30.227	27.137	44.354	0.0339	1.200	H
ATOM	3143	HB3	TRP	183	30.517	28.595	43.402	0.0339	1.200	H
ATOM	3144	CG	TRP	183	32.072	27.192	43.367	-0.1415	1.700	C
ATOM	3145	CD1	TRP	183	33.039	27.769	42.587	-0.1638	1.700	C
ATOM	3146	HD1	TRP	183	33.178	28.830	42.475	0.2062	1.200	H

ATOM	3147	NE1	TRP	183	33.728	26.803	41.890	-0.3418	1.550	N
ATOM	3148	HE1	TRP	183	34.462	27.000	41.224	0.3412	1.300	H
ATOM	3149	CE2	TRP	183	33.231	25.571	42.232	0.1380	1.700	C
ATOM	3150	CZ2	TRP	183	33.601	24.292	41.796	-0.2601	1.700	C
ATOM	3151	HZ2	TRP	183	34.293	24.166	41.008	0.1572	1.200	H
ATOM	3152	CH2	TRP	183	32.914	23.222	42.320	-0.1134	1.700	C
ATOM	3153	HH2	TRP	183	33.150	22.227	41.985	0.1417	1.200	H
ATOM	3154	CZ3	TRP	183	31.883	23.398	43.255	-0.1972	1.700	C
ATOM	3155	HZ3	TRP	183	31.364	22.534	43.643	0.1447	1.200	H
ATOM	3156	CE3	TRP	183	31.515	24.661	43.686	-0.2387	1.700	C
ATOM	3157	HB3	TRP	183	30.720	24.787	44.407	0.1700	1.200	H
ATOM	3158	CD2	TRP	183	32.194	25.776	43.170	0.1243	1.700	C
ATOM	3159	C	TRP	183	30.452	29.850	45.490	0.5973	1.700	C
ATOM	3160	O	TRP	183	29.222	29.721	45.534	-0.5679	1.500	O
ATOM	3161	N	ARG	184	31.060	31.035	45.513	-0.3479	1.550	N
ATOM	3162	H	ARG	184	32.066	31.075	45.488	0.2747	1.300	H
ATOM	3163	CA	ARG	184	30.316	32.292	45.638	-0.2637	1.700	C
ATOM	3164	HA	ARG	184	29.247	32.097	45.566	0.1560	1.200	H
ATOM	3165	CB	ARG	184	30.583	32.942	46.999	-0.0007	1.700	C
ATOM	3166	HB2	ARG	184	31.646	33.126	47.102	0.0327	1.200	H
ATOM	3167	HB3	ARG	184	30.071	33.906	47.035	0.0327	1.200	H
ATOM	3168	CG	ARG	184	30.127	32.111	48.193	0.0390	1.700	C
ATOM	3169	HG2	ARG	184	30.646	31.156	48.206	0.0285	1.200	H
ATOM	3170	HG3	ARG	184	30.455	32.683	49.044	0.0285	1.200	H
ATOM	3171	CD	ARG	184	28.605	31.862	48.199	0.0486	1.700	C
ATOM	3172	HD2	ARG	184	28.081	32.816	48.126	0.0687	1.200	H
ATOM	3173	HD3	ARG	184	28.327	31.255	47.340	0.0687	1.200	H
ATOM	3174	NE	ARG	184	28.161	31.163	49.407	-0.5295	1.550	N
ATOM	3175	HE	ARG	184	27.726	30.255	49.294	0.3456	1.300	H
ATOM	3176	CZ	ARG	184	28.357	31.604	50.654	0.8076	1.700	C
ATOM	3177	NH1	ARG	184	28.983	32.756	50.876	-0.8627	1.550	N
ATOM	3178	HH11	ARG	184	29.127	33.070	51.822	0.4478	1.300	H
ATOM	3179	HH12	ARG	184	29.286	33.315	50.096	0.4478	1.300	H
ATOM	3180	NH2	ARG	184	27.953	30.880	51.691	-0.8627	1.550	N
ATOM	3181	HH21	ARG	184	27.540	29.970	51.516	0.4478	1.300	H
ATOM	3182	HH22	ARG	184	28.117	31.185	52.636	0.4478	1.300	H
ATOM	3183	C	ARG	184	30.659	33.275	44.544	0.7341	1.700	C
ATOM	3184	O	ARG	184	31.799	33.697	44.414	-0.5894	1.500	O
ATOM	3185	N	PHE	185	29.651	33.621	43.753	-0.4157	1.550	N
ATOM	3186	H	PHE	185	28.731	33.239	43.931	0.2719	1.300	H
ATOM	3187	CA	PHE	185	29.790	34.572	42.651	-0.0024	1.700	C
ATOM	3188	HA	PHE	185	30.597	34.234	42.009	0.0978	1.200	H
ATOM	3189	CB	PHE	185	28.497	34.627	41.836	-0.0343	1.700	C
ATOM	3190	HB2	PHE	185	28.251	33.616	41.510	0.0295	1.200	H
ATOM	3191	HB3	PHE	185	27.688	34.989	42.472	0.0295	1.200	H
ATOM	3192	CG	PHE	185	28.578	35.502	40.627	0.0118	1.700	C
ATOM	3193	CD1	PHE	185	28.331	36.861	40.716	-0.1256	1.700	C
ATOM	3194	HD1	PHE	185	28.059	37.300	41.665	0.1330	1.200	H
ATOM	3195	CE1	PHE	185	28.399	37.664	39.589	-0.1704	1.700	C
ATOM	3196	HE1	PHE	185	28.145	38.706	39.682	0.1430	1.200	H
ATOM	3197	CZ	PHE	185	28.715	37.108	38.365	-0.1072	1.700	C
ATOM	3198	HZ	PHE	185	28.758	37.731	37.488	0.1297	1.200	H
ATOM	3199	CE2	PHE	185	28.962	35.762	38.264	-0.1704	1.700	C
ATOM	3200	HE2	PHE	185	29.199	35.328	37.304	0.1430	1.200	H
ATOM	3201	CD2	PHE	185	28.893	34.965	39.390	-0.1256	1.700	C
ATOM	3202	HD2	PHE	185	29.090	33.911	39.298	0.1330	1.200	H
ATOM	3203	C	PHE	185	30.069	35.957	43.206	0.5973	1.700	C
ATOM	3204	O	PHE	185	29.456	36.373	44.187	-0.5679	1.500	O
ATOM	3205	N	ASP	186	30.962	36.682	42.555	-0.5163	1.550	N
ATOM	3206	H	ASP	186	31.405	36.322	41.727	0.2936	1.300	H
ATOM	3207	CA	ASP	186	31.300	38.013	42.988	0.0381	1.700	C
ATOM	3208	HA	ASP	186	30.419	38.515	43.393	0.0880	1.200	H
ATOM	3209	CB	ASP	186	32.399	37.963	44.034	-0.0303	1.700	C
ATOM	3210	HB2	ASP	186	32.093	37.271	44.822	-0.0122	1.200	H
ATOM	3211	HB3	ASP	186	33.323	37.578	43.611	-0.0122	1.200	H
ATOM	3212	CG	ASP	186	32.642	39.297	44.683	0.7994	1.700	C
ATOM	3213	OD1	ASP	186	32.025	40.298	44.256	-0.8014	1.500	O
ATOM	3214	OD2	ASP	186	33.451	39.352	45.627	-0.8014	1.500	O
ATOM	3215	C	ASP	186	31.783	38.731	41.760	0.5366	1.700	C
ATOM	3216	O	ASP	186	32.931	38.567	41.350	-0.5819	1.500	O
ATOM	3217	N	SER	187	30.909	39.545	41.178	-0.4157	1.550	N
ATOM	3218	H	SER	187	29.985	39.663	41.568	0.2719	1.300	H
ATOM	3219	CA	SER	187	31.249	40.268	39.969	-0.0249	1.700	C
ATOM	3220	HA	SER	187	31.608	39.539	39.243	0.0843	1.200	H
ATOM	3221	CB	SER	187	30.019	40.930	39.360	0.2117	1.700	C
ATOM	3222	HB2	SER	187	30.318	41.488	38.472	0.0352	1.200	H
ATOM	3223	HB3	SER	187	29.311	40.182	39.027	0.0352	1.200	H

ATOM	3224	OG	SER	187	29.398	41.819	40.265	-0.6546	1.500	O
ATOM	3225	HG	SER	187	28.681	42.264	39.806	0.4275	1.200	H
ATOM	3226	C	SER	187	32.351	41.283	40.155	0.5973	1.700	C
ATOM	3227	O	SER	187	32.795	41.898	39.195	-0.5679	1.500	O
ATOM	3228	N	ARG	188	32.801	41.496	41.377	-0.3479	1.550	N
ATOM	3229	H	ARG	188	32.429	41.010	42.182	0.2747	1.300	H
ATOM	3230	CA	ARG	188	33.871	42.457	41.526	-0.2637	1.700	C
ATOM	3231	HA	ARG	188	33.699	43.296	40.850	0.1560	1.200	H
ATOM	3232	CB	ARG	188	33.890	43.062	42.916	-0.0007	1.700	C
ATOM	3233	HB2	ARG	188	34.591	43.899	42.924	0.0327	1.200	H
ATOM	3234	HB3	ARG	188	32.892	43.477	43.022	0.0327	1.200	H
ATOM	3235	CG	ARG	188	34.255	42.129	43.997	0.0390	1.700	C
ATOM	3236	HG2	ARG	188	33.980	41.123	43.818	0.0285	1.200	H
ATOM	3237	HG3	ARG	188	35.343	42.047	43.968	0.0285	1.200	H
ATOM	3238	CD	ARG	188	33.958	42.784	45.313	0.0486	1.700	C
ATOM	3239	HD2	ARG	188	34.125	42.042	46.094	0.0687	1.200	H
ATOM	3240	HD3	ARG	188	34.652	43.612	45.465	0.0687	1.200	H
ATOM	3241	NE	ARG	188	32.599	43.307	45.353	-0.5295	1.550	N
ATOM	3242	HE	ARG	188	32.197	43.622	44.485	0.3456	1.300	H
ATOM	3243	CZ	ARG	188	31.866	43.370	46.457	0.8076	1.700	C
ATOM	3244	NH1	ARG	188	32.367	42.932	47.615	-0.8627	1.550	N
ATOM	3245	HH11	ARG	188	33.290	42.528	47.634	0.4478	1.300	H
ATOM	3246	HH12	ARG	188	31.813	42.982	48.455	0.4478	1.300	H
ATOM	3247	NH2	ARG	188	30.644	43.902	46.406	-0.8627	1.550	N
ATOM	3248	HH21	ARG	188	30.277	44.229	45.525	0.4478	1.300	H
ATOM	3249	HH22	ARG	188	30.089	43.979	47.244	0.4478	1.300	H
ATOM	3250	C	ARG	188	35.217	41.854	41.150	0.7341	1.700	C
ATOM	3251	O	ARG	188	36.175	42.587	40.879	-0.5894	1.500	O
ATOM	3252	N	LEU	189	35.255	40.524	41.043	-0.4157	1.550	N
ATOM	3253	H	LEU	189	34.428	39.981	41.251	0.2719	1.300	H
ATOM	3254	CA	LEU	189	36.470	39.807	40.682	-0.0518	1.700	C
ATOM	3255	HA	LEU	189	37.299	40.213	41.258	0.0922	1.200	H
ATOM	3256	CB	LEU	189	36.325	38.314	40.957	-0.1102	1.700	C
ATOM	3257	HB2	LEU	189	35.460	37.953	40.409	0.0457	1.200	H
ATOM	3258	HB3	LEU	189	37.209	37.782	40.600	0.0457	1.200	H
ATOM	3259	CG	LEU	189	36.130	38.053	42.455	0.3531	1.700	C
ATOM	3260	HG	LEU	189	35.318	38.673	42.833	-0.0361	1.200	H
ATOM	3261	CD1	LEU	189	35.750	36.628	42.716	-0.4121	1.700	C
ATOM	3262	HD11	LEU	189	35.407	36.571	43.742	0.1000	1.200	H
ATOM	3263	HD12	LEU	189	34.923	36.336	42.068	0.1000	1.200	H
ATOM	3264	HD13	LEU	189	36.593	35.961	42.547	0.1000	1.200	H
ATOM	3265	CD2	LEU	189	37.389	38.416	43.204	-0.4121	1.700	C
ATOM	3266	HD21	LEU	189	37.255	38.168	44.255	0.1000	1.200	H
ATOM	3267	HD22	LEU	189	38.246	37.871	42.806	0.1000	1.200	H
ATOM	3268	HD23	LEU	189	37.584	39.486	43.166	0.1000	1.200	H
ATOM	3269	C	LEU	189	36.805	40.081	39.233	0.5973	1.700	C
ATOM	3270	O	LEU	189	37.958	39.935	38.819	-0.5679	1.500	O
ATOM	3271	N	ALA	190	35.808	40.504	38.461	-0.4157	1.550	N
ATOM	3272	H	ALA	190	34.881	40.620	38.843	0.2719	1.300	H
ATOM	3273	CA	ALA	190	36.036	40.871	37.064	0.0337	1.700	C
ATOM	3274	HA	ALA	190	36.737	40.180	36.596	0.0823	1.200	H
ATOM	3275	CB	ALA	190	34.727	40.847	36.310	-0.1825	1.700	C
ATOM	3276	HB1	ALA	190	34.831	41.334	35.344	0.0603	1.200	H
ATOM	3277	HB2	ALA	190	34.437	39.818	36.127	0.0603	1.200	H
ATOM	3278	HB3	ALA	190	33.949	41.364	36.871	0.0603	1.200	H
ATOM	3279	C	ALA	190	36.633	42.291	37.031	0.5973	1.700	C
ATOM	3280	O	ALA	190	37.087	42.757	35.984	-0.5679	1.500	O
ATOM	3281	N	PHE	191	36.631	42.964	38.191	-0.4157	1.550	N
ATOM	3282	H	PHE	191	36.237	42.526	39.008	0.2719	1.300	H
ATOM	3283	CA	PHE	191	37.130	44.338	38.340	-0.0024	1.700	C
ATOM	3284	HA	PHE	191	37.527	44.666	37.379	0.0978	1.200	H
ATOM	3285	CB	PHE	191	35.943	45.284	38.671	-0.0343	1.700	C
ATOM	3286	HB2	PHE	191	35.458	44.948	39.588	0.0295	1.200	H
ATOM	3287	HB3	PHE	191	36.335	46.285	38.855	0.0295	1.200	H
ATOM	3288	CG	PHE	191	34.918	45.381	37.551	0.0118	1.700	C
ATOM	3289	CD1	PHE	191	35.220	46.041	36.366	-0.1256	1.700	C
ATOM	3290	HD1	PHE	191	36.160	46.566	36.274	0.1330	1.200	H
ATOM	3291	CE1	PHE	191	34.330	46.006	35.247	-0.1704	1.700	C
ATOM	3292	HE1	PHE	191	34.596	46.510	34.330	0.1430	1.200	H
ATOM	3293	CZ	PHE	191	33.146	45.312	35.330	-0.1072	1.700	C
ATOM	3294	HZ	PHE	191	32.473	45.276	34.486	0.1297	1.200	H
ATOM	3295	CE2	PHE	191	32.824	44.653	36.524	-0.1704	1.700	C
ATOM	3296	HE2	PHE	191	31.895	44.107	36.604	0.1430	1.200	H
ATOM	3297	CD2	PHE	191	33.709	44.695	37.626	-0.1256	1.700	C
ATOM	3298	HD2	PHE	191	33.453	44.173	38.533	0.1330	1.200	H
ATOM	3299	C	PHE	191	38.302	44.509	39.339	0.5973	1.700	C
ATOM	3300	O	PHE	191	39.033	45.492	39.290	-0.5679	1.500	O

ATOM	3301	N	HIS	192	38.530	43.517	40.186	-0.4157	1.550	N
ATOM	3302	H	HIS	192	37.933	42.704	40.180	0.2719	1.300	H
ATOM	3303	CA	HIS	192	39.615	43.561	41.160	-0.0581	1.700	C
ATOM	3304	HA	HIS	192	40.321	44.363	40.940	0.1360	1.200	H
ATOM	3305	CB	HIS	192	39.011	43.785	42.536	-0.0074	1.700	C
ATOM	3306	HB2	HIS	192	38.439	44.714	42.514	0.0367	1.200	H
ATOM	3307	HB3	HIS	192	38.316	42.979	42.778	0.0367	1.200	H
ATOM	3308	CG	HIS	192	40.018	43.904	43.637	0.1868	1.700	C
ATOM	3309	ND1	HIS	192	39.671	43.794	44.967	-0.5432	1.550	N
ATOM	3310	CE1	HIS	192	40.738	44.008	45.714	0.1635	1.700	C
ATOM	3311	HE1	HIS	192	40.769	43.996	46.795	0.1435	1.200	H
ATOM	3312	NE2	HIS	192	41.765	44.246	44.917	-0.2795	1.550	N
ATOM	3313	HE2	HIS	192	42.712	44.443	45.219	0.3339	1.300	H
ATOM	3314	CD2	HIS	192	41.344	44.181	43.612	-0.2207	1.700	C
ATOM	3315	HD2	HIS	192	41.955	44.358	42.739	0.1862	1.200	H
ATOM	3316	C	HIS	192	40.354	42.224	41.163	0.5973	1.700	C
ATOM	3317	O	HIS	192	39.809	41.233	41.614	-0.5679	1.500	O
ATOM	3318	N	HIS	193	41.572	42.179	40.640	-0.4157	1.550	N
ATOM	3319	H	HIS	193	41.992	43.018	40.265	0.2719	1.300	H
ATOM	3320	CA	HIS	193	42.357	40.936	40.610	-0.0581	1.700	C
ATOM	3321	HA	HIS	193	41.698	40.105	40.349	0.1360	1.200	H
ATOM	3322	CB	HIS	193	43.477	41.040	39.572	-0.0074	1.700	C
ATOM	3323	HB2	HIS	193	43.064	41.544	38.697	0.0367	1.200	H
ATOM	3324	HB3	HIS	193	44.302	41.666	39.915	0.0367	1.200	H
ATOM	3325	CG	HIS	193	43.991	39.719	39.075	0.1868	1.700	C
ATOM	3326	ND1	HIS	193	44.894	39.620	38.033	-0.5432	1.550	N
ATOM	3327	CE1	HIS	193	45.162	38.346	37.807	0.1635	1.700	C
ATOM	3328	HE1	HIS	193	45.843	37.966	37.059	0.1435	1.200	H
ATOM	3329	NE2	HIS	193	44.464	37.617	38.662	-0.2795	1.550	N
ATOM	3330	HE2	HIS	193	44.494	36.610	38.729	0.3339	1.300	H
ATOM	3331	CD2	HIS	193	43.723	38.449	39.464	-0.2207	1.700	C
ATOM	3332	HD2	HIS	193	43.059	38.144	40.259	0.1862	1.200	H
ATOM	3333	C	HIS	193	42.971	40.702	41.983	0.5973	1.700	C
ATOM	3334	O	HIS	193	44.185	40.751	42.146	-0.5679	1.500	O
ATOM	3335	N	VAL	194	42.118	40.420	42.957	-0.4157	1.550	N
ATOM	3336	H	VAL	194	41.131	40.413	42.746	0.2719	1.300	H
ATOM	3337	CA	VAL	194	42.517	40.177	44.337	-0.0875	1.700	C
ATOM	3338	HA	VAL	194	42.770	41.139	44.788	0.0969	1.200	H
ATOM	3339	CB	VAL	194	41.347	39.553	45.121	0.2985	1.700	C
ATOM	3340	HB	VAL	194	41.110	38.574	44.703	-0.0297	1.200	H
ATOM	3341	CG1	VAL	194	41.729	39.373	46.562	-0.3192	1.700	C
ATOM	3342	HG11	VAL	194	40.855	39.104	47.152	0.0791	1.200	H
ATOM	3343	HG12	VAL	194	42.459	38.573	46.662	0.0791	1.200	H
ATOM	3344	HG13	VAL	194	42.147	40.298	46.962	0.0791	1.200	H
ATOM	3345	CG2	VAL	194	40.103	40.406	44.995	-0.3192	1.700	C
ATOM	3346	HG21	VAL	194	39.768	40.492	43.967	0.0791	1.200	H
ATOM	3347	HG22	VAL	194	39.292	39.953	45.565	0.0791	1.200	H
ATOM	3348	HG23	VAL	194	40.307	41.385	45.411	0.0791	1.200	H
ATOM	3349	C	VAL	194	43.732	39.248	44.473	0.5973	1.700	C
ATOM	3350	O	VAL	194	44.729	39.598	45.110	-0.5679	1.500	O
ATOM	3351	N	ALA	195	43.632	38.062	43.877	-0.4157	1.550	N
ATOM	3352	H	ALA	195	42.789	37.844	43.368	0.2719	1.300	H
ATOM	3353	CA	ALA	195	44.682	37.050	43.925	0.0337	1.700	C
ATOM	3354	HA	ALA	195	44.746	36.701	44.957	0.0823	1.200	H
ATOM	3355	CB	ALA	195	44.310	35.877	43.071	-0.1825	1.700	C
ATOM	3356	HB1	ALA	195	45.087	35.119	43.148	0.0603	1.200	H
ATOM	3357	HB2	ALA	195	43.360	35.458	43.400	0.0603	1.200	H
ATOM	3358	HB3	ALA	195	44.221	36.188	42.029	0.0603	1.200	H
ATOM	3359	C	ALA	195	46.057	37.542	43.532	0.5973	1.700	C
ATOM	3360	O	ALA	195	47.050	37.092	44.102	-0.5679	1.500	O
ATOM	3361	N	ARG	196	46.141	38.440	42.557	-0.3479	1.550	N
ATOM	3362	H	ARG	196	45.311	38.813	42.118	0.2747	1.300	H
ATOM	3363	CA	ARG	196	47.450	38.938	42.155	-0.2637	1.700	C
ATOM	3364	HA	ARG	196	48.144	38.107	42.081	0.1560	1.200	H
ATOM	3365	CB	ARG	196	47.401	39.650	40.809	-0.0007	1.700	C
ATOM	3366	HB2	ARG	196	46.962	38.984	40.066	0.0327	1.200	H
ATOM	3367	HB3	ARG	196	46.768	40.534	40.905	0.0327	1.200	H
ATOM	3368	CG	ARG	196	48.779	40.052	40.344	0.0390	1.700	C
ATOM	3369	HG2	ARG	196	49.303	40.667	41.050	0.0285	1.200	H
ATOM	3370	HG3	ARG	196	49.409	39.201	40.121	0.0285	1.200	H
ATOM	3371	CD	ARG	196	48.745	41.021	39.207	0.0486	1.700	C
ATOM	3372	HD2	ARG	196	47.789	41.546	39.181	0.0687	1.200	H
ATOM	3373	HD3	ARG	196	49.524	41.761	39.394	0.0687	1.200	H
ATOM	3374	NE	ARG	196	48.975	40.368	37.932	-0.5295	1.550	N
ATOM	3375	HE	ARG	196	48.632	39.425	37.823	0.3456	1.300	H
ATOM	3376	CZ	ARG	196	49.630	40.934	36.928	0.8076	1.700	C
ATOM	3377	NH1	ARG	196	50.116	42.154	37.073	-0.8627	1.550	N

ATOM	3378	HH11	ARG	196	50.643	42.580	36.327	0.4478	1.300	H
ATOM	3379	HH12	ARG	196	49.988	42.639	37.947	0.4478	1.300	H
ATOM	3380	NH2	ARG	196	49.766	40.298	35.769	-0.8627	1.550	N
ATOM	3381	HH21	ARG	196	49.443	39.347	35.672	0.4478	1.300	H
ATOM	3382	HH22	ARG	196	50.261	40.730	35.005	0.4478	1.300	H
ATOM	3383	C	ARG	196	48.044	39.877	43.197	0.7341	1.700	C
ATOM	3384	O	ARG	196	49.229	40.189	43.158	-0.5894	1.500	O
ATOM	3385	N	GLU	197	47.212	40.378	44.097	-0.5163	1.550	N
ATOM	3386	H	GLU	197	46.231	40.143	44.081	0.2936	1.300	H
ATOM	3387	CA	GLU	197	47.703	41.271	45.125	0.0397	1.700	C
ATOM	3388	HA	GLU	197	48.554	41.853	44.768	0.1105	1.200	H
ATOM	3389	CB	GLU	197	46.614	42.238	45.559	0.0560	1.700	C
ATOM	3390	HB2	GLU	197	45.761	41.659	45.904	-0.0173	1.200	H
ATOM	3391	HB3	GLU	197	46.982	42.814	46.410	-0.0173	1.200	H
ATOM	3392	CG	GLU	197	46.186	43.213	44.487	0.0136	1.700	C
ATOM	3393	HG2	GLU	197	46.992	43.926	44.309	-0.0425	1.200	H
ATOM	3394	HG3	GLU	197	45.990	42.677	43.557	-0.0425	1.200	H
ATOM	3395	CD	GLU	197	44.916	43.959	44.868	0.8054	1.700	C
ATOM	3396	OE1	GLU	197	44.283	43.575	45.881	-0.8188	1.500	O
ATOM	3397	OE2	GLU	197	44.543	44.918	44.151	-0.8188	1.500	O
ATOM	3398	C	GLU	197	48.140	40.429	46.301	0.5366	1.700	C
ATOM	3399	O	GLU	197	49.230	40.616	46.826	-0.5819	1.500	O
ATOM	3400	N	LEU	198	47.274	39.507	46.719	-0.4157	1.550	N
ATOM	3401	H	LEU	198	46.383	39.412	46.252	0.2719	1.300	H
ATOM	3402	CA	LEU	198	47.574	38.619	47.837	-0.0518	1.700	C
ATOM	3403	HA	LEU	198	47.816	39.208	48.722	0.0922	1.200	H
ATOM	3404	CB	LEU	198	46.402	37.689	48.131	-0.1102	1.700	C
ATOM	3405	HB2	LEU	198	46.294	37.022	47.275	0.0457	1.200	H
ATOM	3406	HB3	LEU	198	46.684	37.070	48.986	0.0457	1.200	H
ATOM	3407	CG	LEU	198	45.025	38.269	48.389	0.3531	1.700	C
ATOM	3408	HG	LEU	198	44.672	38.795	47.506	-0.0361	1.200	H
ATOM	3409	CD1	LEU	198	44.053	37.154	48.720	-0.4121	1.700	C
ATOM	3410	HD11	LEU	198	43.071	37.580	48.922	0.1000	1.200	H
ATOM	3411	HD12	LEU	198	43.984	36.470	47.874	0.1000	1.200	H
ATOM	3412	HD13	LEU	198	44.389	36.605	49.601	0.1000	1.200	H
ATOM	3413	CD2	LEU	198	45.116	39.234	49.524	-0.4121	1.700	C
ATOM	3414	HD21	LEU	198	44.122	39.610	49.767	0.1000	1.200	H
ATOM	3415	HD22	LEU	198	45.538	38.751	50.407	0.1000	1.200	H
ATOM	3416	HD23	LEU	198	45.735	40.088	49.247	0.1000	1.200	H
ATOM	3417	C	LEU	198	48.768	37.755	47.470	0.5973	1.700	C
ATOM	3418	O	LEU	198	49.586	37.418	48.320	-0.5679	1.500	O
ATOM	3419	N	HIS	199	48.866	37.370	46.210	-0.4157	1.550	N
ATOM	3420	H	HIS	199	48.184	37.659	45.526	0.2719	1.300	H
ATOM	3421	CA	HIS	199	49.955	36.529	45.812	-0.0581	1.700	C
ATOM	3422	HA	HIS	199	50.780	36.567	46.522	0.1360	1.200	H
ATOM	3423	CB	HIS	199	49.494	35.084	45.756	-0.0074	1.700	C
ATOM	3424	HB2	HIS	199	48.689	34.999	45.025	0.0367	1.200	H
ATOM	3425	HB3	HIS	199	50.326	34.457	45.435	0.0367	1.200	H
ATOM	3426	CG	HIS	199	48.990	34.552	47.061	0.1868	1.700	C
ATOM	3427	ND1	HIS	199	49.643	34.033	48.127	-0.5432	1.550	N
ATOM	3428	CE1	HIS	199	48.688	33.684	49.055	0.1635	1.700	C
ATOM	3429	HE1	HIS	199	48.889	33.244	50.021	0.1435	1.200	H
ATOM	3430	NE2	HIS	199	47.493	33.979	48.579	-0.2795	1.550	N
ATOM	3431	HE2	HIS	199	46.619	33.842	49.066	0.3339	1.300	H
ATOM	3432	CD2	HIS	199	47.648	34.504	47.376	-0.2207	1.700	C
ATOM	3433	HD2	HIS	199	46.863	34.865	46.738	0.1862	1.200	H
ATOM	3434	C	HIS	199	50.480	36.939	44.469	0.5973	1.700	C
ATOM	3435	O	HIS	199	50.302	36.229	43.488	-0.5679	1.500	O
ATOM	3436	N	PRO	200	51.207	38.058	44.415	-0.2548	1.550	N
ATOM	3437	CD	PRO	200	51.603	38.906	45.549	0.0192	1.700	C
ATOM	3438	HD2	PRO	200	51.841	38.352	46.456	0.0391	1.200	H
ATOM	3439	HD3	PRO	200	50.844	39.648	45.703	0.0391	1.200	H
ATOM	3440	CG	PRO	200	52.831	39.592	45.001	0.0189	1.700	C
ATOM	3441	HG2	PRO	200	53.692	38.924	45.059	0.0213	1.200	H
ATOM	3442	HG3	PRO	200	53.037	40.519	45.538	0.0213	1.200	H
ATOM	3443	CB	PRO	200	52.474	39.853	43.596	-0.0070	1.700	C
ATOM	3444	HB2	PRO	200	53.357	40.065	42.991	0.0253	1.200	H
ATOM	3445	HB3	PRO	200	51.779	40.693	43.544	0.0253	1.200	H
ATOM	3446	CA	PRO	200	51.775	38.563	43.161	-0.0266	1.700	C
ATOM	3447	HA	PRO	200	50.994	38.779	42.436	0.0641	1.200	H
ATOM	3448	C	PRO	200	52.748	37.591	42.519	0.5896	1.700	C
ATOM	3449	O	PRO	200	52.998	37.649	41.311	-0.5748	1.500	O
ATOM	3450	N	GLU	201	53.287	36.688	43.330	-0.5163	1.550	N
ATOM	3451	H	GLU	201	53.042	36.672	44.312	0.2936	1.300	H
ATOM	3452	CA	GLU	201	54.237	35.703	42.836	0.0397	1.700	C
ATOM	3453	HA	GLU	201	55.093	36.245	42.430	0.1105	1.200	H
ATOM	3454	CB	GLU	201	54.748	34.828	43.983	0.0560	1.700	C

ATOM	3455	HB2	GLU	201	55.522	34.183	43.563	-0.0173	1.200	H
ATOM	3456	HB3	GLU	201	55.242	35.445	44.735	-0.0173	1.200	H
ATOM	3457	CG	GLU	201	53.694	33.920	44.616	0.0136	1.700	C
ATOM	3458	HG2	GLU	201	52.856	33.680	43.981	-0.0425	1.200	H
ATOM	3459	HG3	GLU	201	54.185	32.969	44.833	-0.0425	1.200	H
ATOM	3460	CD	GLU	201	53.152	34.447	45.929	0.8054	1.700	C
ATOM	3461	OE1	GLU	201	53.192	35.679	46.149	-0.8188	1.500	O
ATOM	3462	OE2	GLU	201	52.682	33.625	46.746	-0.8188	1.500	O
ATOM	3463	C	GLU	201	53.667	34.831	41.705	0.5366	1.700	C
ATOM	3464	O	GLU	201	54.368	34.547	40.738	-0.5819	1.500	O
ATOM	3465	N	TYR	202	52.389	34.462	41.796	-0.4157	1.550	N
ATOM	3466	H	TYR	202	51.836	34.747	42.592	0.2719	1.300	H
ATOM	3467	CA	TYR	202	51.773	33.619	40.776	-0.0014	1.700	C
ATOM	3468	HA	TYR	202	52.336	32.689	40.696	0.0876	1.200	H
ATOM	3469	CB	TYR	202	50.314	33.311	41.111	-0.0152	1.700	C
ATOM	3470	HB2	TYR	202	49.759	34.242	41.102	0.0295	1.200	H
ATOM	3471	HB3	TYR	202	49.899	32.660	40.341	0.0295	1.200	H
ATOM	3472	CG	TYR	202	50.099	32.654	42.447	-0.0011	1.700	C
ATOM	3473	CD1	TYR	202	51.054	31.809	42.986	-0.1906	1.700	C
ATOM	3474	HD1	TYR	202	51.968	31.590	42.455	0.1699	1.200	H
ATOM	3475	CE1	TYR	202	50.874	31.226	44.233	-0.2341	1.700	C
ATOM	3476	HE1	TYR	202	51.638	30.582	44.646	0.1656	1.200	H
ATOM	3477	CZ	TYR	202	49.733	31.486	44.948	0.3226	1.700	C
ATOM	3478	OH	TYR	202	49.609	30.950	46.199	-0.5579	1.500	O
ATOM	3479	HH	TYR	202	48.847	31.294	46.667	0.3992	1.200	H
ATOM	3480	CE2	TYR	202	48.762	32.311	44.438	-0.2341	1.700	C
ATOM	3481	HE2	TYR	202	47.880	32.541	45.017	0.1656	1.200	H
ATOM	3482	CD2	TYR	202	48.949	32.895	43.189	-0.1906	1.700	C
ATOM	3483	HD2	TYR	202	48.228	33.604	42.823	0.1699	1.200	H
ATOM	3484	C	TYR	202	51.786	34.268	39.414	0.5973	1.700	C
ATOM	3485	O	TYR	202	51.654	33.581	38.404	-0.5679	1.500	O
ATOM	3486	N	PHE	203	51.960	35.582	39.370	-0.3821	1.550	N
ATOM	3487	H	PHE	203	52.148	36.107	40.212	0.2681	1.300	H
ATOM	3488	CA	PHE	203	51.902	36.289	38.092	-0.1825	1.700	C
ATOM	3489	HA	PHE	203	51.617	35.598	37.300	0.1098	1.200	H
ATOM	3490	CB	PHE	203	50.777	37.332	38.148	-0.0959	1.700	C
ATOM	3491	HB2	PHE	203	51.099	38.154	38.790	0.0443	1.200	H
ATOM	3492	HB3	PHE	203	50.618	37.737	37.148	0.0443	1.200	H
ATOM	3493	CG	PHE	203	49.488	36.785	38.672	0.0552	1.700	C
ATOM	3494	CD1	PHE	203	49.268	36.690	40.034	-0.1300	1.700	C
ATOM	3495	HD1	PHE	203	50.028	37.022	40.727	0.1408	1.200	H
ATOM	3496	CE1	PHE	203	48.103	36.133	40.532	-0.1847	1.700	C
ATOM	3497	HE1	PHE	203	47.961	36.030	41.598	0.1461	1.200	H
ATOM	3498	CZ	PHE	203	47.137	35.666	39.663	-0.0944	1.700	C
ATOM	3499	HZ	PHE	203	46.232	35.230	40.052	0.1280	1.200	H
ATOM	3500	CE2	PHE	203	47.341	35.757	38.297	-0.1847	1.700	C
ATOM	3501	HE2	PHE	203	46.611	35.368	37.606	0.1461	1.200	H
ATOM	3502	CD2	PHE	203	48.515	36.316	37.806	-0.1300	1.700	C
ATOM	3503	HD2	PHE	203	48.677	36.361	36.738	0.1408	1.200	H
ATOM	3504	C	PHE	203	53.195	36.930	37.607	0.7660	1.700	C
ATOM	3505	O	PHE	203	53.267	37.415	36.464	-0.8026	1.500	O
ATOM	3506	OXT	PHE	203	54.163	37.027	38.358	-0.8026	1.500	O
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PDB co-ordinate of AMBER generated PDB

ATOM	1	N	ARG	1	-11.396	-11.106	-18.204	1.00	0.00
ATOM	2	H1	ARG	1	-11.805	-10.317	-17.725	1.00	0.00
ATOM	3	H2	ARG	1	-12.128	-11.609	-18.684	1.00	0.00
ATOM	4	H3	ARG	1	-10.582	-10.792	-18.712	1.00	0.00
ATOM	5	CA	ARG	1	-10.885	-12.037	-17.193	1.00	0.00
ATOM	6	HA	ARG	1	-11.384	-13.000	-17.299	1.00	0.00
ATOM	7	CB	ARG	1	-9.374	-12.248	-17.351	1.00	0.00
ATOM	8	HB2	ARG	1	-9.206	-12.585	-18.374	1.00	0.00
ATOM	9	HB3	ARG	1	-8.901	-11.277	-17.207	1.00	0.00
ATOM	10	CG	ARG	1	-8.772	-13.254	-16.380	1.00	0.00
ATOM	11	HG2	ARG	1	-9.120	-13.027	-15.372	1.00	0.00
ATOM	12	HG3	ARG	1	-9.098	-14.256	-16.659	1.00	0.00
ATOM	13	CD	ARG	1	-7.259	-13.187	-16.418	1.00	0.00
ATOM	14	HD2	ARG	1	-6.925	-13.552	-17.389	1.00	0.00
ATOM	15	HD3	ARG	1	-6.960	-12.146	-16.298	1.00	0.00
ATOM	16	NE	ARG	1	-6.617	-13.981	-15.374	1.00	0.00
ATOM	17	HE	ARG	1	-6.866	-13.774	-14.417	1.00	0.00
ATOM	18	CZ	ARG	1	-5.784	-14.995	-15.609	1.00	0.00
ATOM	19	NH1	ARG	1	-5.495	-15.356	-16.857	1.00	0.00

ATOM	20	HH11	ARG	1	-5.909	-14.859	-17.632	1.00	0.00
ATOM	21	HH12	ARG	1	-4.863	-16.126	-17.023	1.00	0.00
ATOM	22	NH2	ARG	1	-5.178	-15.610	-14.597	1.00	0.00
ATOM	23	HH21	ARG	1	-5.351	-15.307	-13.649	1.00	0.00
ATOM	24	HH22	ARG	1	-4.548	-16.378	-14.781	1.00	0.00
ATOM	25	C	ARG	1	-11.185	-11.426	-15.840	1.00	0.00
ATOM	26	O	ARG	1	-10.392	-10.657	-15.300	1.00	0.00
ATOM	27	N	PRO	2	-12.328	-11.791	-15.263	1.00	0.00
ATOM	28	CD	PRO	2	-13.113	-12.934	-15.738	1.00	0.00
ATOM	29	HD2	PRO	2	-12.629	-13.867	-15.446	1.00	0.00
ATOM	30	HD3	PRO	2	-13.207	-12.898	-16.823	1.00	0.00
ATOM	31	CG	PRO	2	-14.419	-12.726	-15.047	1.00	0.00
ATOM	32	HG2	PRO	2	-14.997	-13.650	-15.006	1.00	0.00
ATOM	33	HG3	PRO	2	-15.007	-11.951	-15.538	1.00	0.00
ATOM	34	CB	PRO	2	-14.000	-12.295	-13.703	1.00	0.00
ATOM	35	HB2	PRO	2	-13.652	-13.135	-13.101	1.00	0.00
ATOM	36	HB3	PRO	2	-14.798	-11.776	-13.173	1.00	0.00
ATOM	37	CA	PRO	2	-12.837	-11.330	-13.974	1.00	0.00
ATOM	38	HA	PRO	2	-13.171	-10.303	-14.118	1.00	0.00
ATOM	39	C	PRO	2	-11.833	-11.381	-12.832	1.00	0.00
ATOM	40	O	PRO	2	-10.813	-12.073	-12.886	1.00	0.00
ATOM	41	N	GLN	3	-12.107	-10.594	-11.809	1.00	0.00
ATOM	42	H	GLN	3	-12.913	-9.985	-11.803	1.00	0.00
ATOM	43	CA	GLN	3	-11.264	-10.615	-10.653	1.00	0.00
ATOM	44	HA	GLN	3	-10.221	-10.689	-10.961	1.00	0.00
ATOM	45	CB	GLN	3	-11.441	-9.339	-9.828	1.00	0.00
ATOM	46	HB2	GLN	3	-11.225	-8.505	-10.496	1.00	0.00
ATOM	47	HB3	GLN	3	-12.489	-9.304	-9.531	1.00	0.00
ATOM	48	CG	GLN	3	-10.560	-9.239	-8.590	1.00	0.00
ATOM	49	HG2	GLN	3	-9.580	-9.667	-8.801	1.00	0.00
ATOM	50	HG3	GLN	3	-10.449	-8.186	-8.332	1.00	0.00
ATOM	51	CD	GLN	3	-11.158	-9.964	-7.410	1.00	0.00
ATOM	52	OE1	GLN	3	-12.383	-10.051	-7.285	1.00	0.00
ATOM	53	NE2	GLN	3	-10.309	-10.506	-6.542	1.00	0.00
ATOM	54	HE21	GLN	3	-10.663	-11.002	-5.736	1.00	0.00
ATOM	55	HE22	GLN	3	-9.314	-10.420	-6.692	1.00	0.00
ATOM	56	C	GLN	3	-11.818	-11.842	-9.942	1.00	0.00
ATOM	57	O	GLN	3	-13.026	-11.954	-9.709	1.00	0.00
ATOM	58	N	VAL	4	-10.938	-12.814	-9.747	1.00	0.00
ATOM	59	H	VAL	4	-10.014	-12.675	-10.130	1.00	0.00
ATOM	60	CA	VAL	4	-11.226	-14.078	-9.083	1.00	0.00
ATOM	61	HA	VAL	4	-11.914	-14.741	-9.607	1.00	0.00
ATOM	62	CB	VAL	4	-9.894	-14.811	-8.885	1.00	0.00
ATOM	63	HB	VAL	4	-9.087	-14.112	-9.101	1.00	0.00
ATOM	64	CG1	VAL	4	-9.741	-15.328	-7.511	1.00	0.00
ATOM	65	HG11	VAL	4	-10.548	-16.028	-7.293	1.00	0.00
ATOM	66	HG12	VAL	4	-8.783	-15.839	-7.419	1.00	0.00
ATOM	67	HG13	VAL	4	-9.779	-14.500	-6.804	1.00	0.00
ATOM	68	CG2	VAL	4	-9.745	-15.881	-9.899	1.00	0.00
ATOM	69	HG21	VAL	4	-9.766	-15.443	-10.896	1.00	0.00
ATOM	70	HG22	VAL	4	-8.796	-16.395	-9.749	1.00	0.00
ATOM	71	HG23	VAL	4	-10.563	-16.594	-9.798	1.00	0.00
ATOM	72	C	VAL	4	-11.960	-13.863	-7.762	1.00	0.00
ATOM	73	O	VAL	4	-11.882	-12.792	-7.158	1.00	0.00
ATOM	74	N	PRO	5	-12.743	-14.856	-7.323	1.00	0.00
ATOM	75	CD	PRO	5	-13.119	-16.117	-7.985	1.00	0.00
ATOM	76	HD2	PRO	5	-12.346	-16.868	-7.820	1.00	0.00
ATOM	77	HD3	PRO	5	-13.243	-15.953	-9.055	1.00	0.00
ATOM	78	CG	PRO	5	-14.411	-16.462	-7.306	1.00	0.00
ATOM	79	HG2	PRO	5	-14.608	-17.533	-7.367	1.00	0.00
ATOM	80	HG3	PRO	5	-15.242	-15.915	-7.751	1.00	0.00
ATOM	81	CB	PRO	5	-14.181	-16.027	-5.889	1.00	0.00
ATOM	82	HB2	PRO	5	-13.518	-16.745	-5.404	1.00	0.00
ATOM	83	HB3	PRO	5	-15.079	-15.898	-5.285	1.00	0.00
ATOM	84	CA	PRO	5	-13.464	-14.684	-6.052	1.00	0.00
ATOM	85	HA	PRO	5	-14.139	-13.834	-6.151	1.00	0.00
ATOM	86	C	PRO	5	-12.501	-14.438	-4.883	1.00	0.00
ATOM	87	O	PRO	5	-11.369	-14.919	-4.889	1.00	0.00
ATOM	88	N	LEU	6	-12.924	-13.671	-3.891	1.00	0.00
ATOM	89	H	LEU	6	-13.834	-13.232	-3.892	1.00	0.00
ATOM	90	CA	LEU	6	-12.051	-13.447	-2.748	1.00	0.00
ATOM	91	HA	LEU	6	-11.075	-13.110	-3.097	1.00	0.00
ATOM	92	CB	LEU	6	-12.629	-12.383	-1.808	1.00	0.00
ATOM	93	HB2	LEU	6	-12.443	-11.450	-2.340	1.00	0.00
ATOM	94	HB3	LEU	6	-13.704	-12.547	-1.728	1.00	0.00
ATOM	95	CG	LEU	6	-12.018	-12.300	-0.401	1.00	0.00
ATOM	96	HG	LEU	6	-10.960	-12.559	-0.454	1.00	0.00

ATOM	97	CD1	LEU	6	-12.167	-10.904	0.147	1.00	0.00
ATOM	98	HD11	LEU	6	-13.224	-10.645	0.201	1.00	0.00
ATOM	99	HD12	LEU	6	-11.731	-10.857	1.145	1.00	0.00
ATOM	100	HD13	LEU	6	-11.654	-10.200	-0.507	1.00	0.00
ATOM	101	CD2	LEU	6	-12.655	-13.330	0.555	1.00	0.00
ATOM	102	HD21	LEU	6	-12.492	-14.336	0.168	1.00	0.00
ATOM	103	HD22	LEU	6	-12.198	-13.243	1.541	1.00	0.00
ATOM	104	HD23	LEU	6	-13.726	-13.141	0.633	1.00	0.00
ATOM	105	C	LEU	6	-11.924	-14.768	-2.005	1.00	0.00
ATOM	106	O	LEU	6	-12.815	-15.608	-2.093	1.00	0.00
ATOM	107	N	ARG	7	-10.815	-14.956	-1.295	1.00	0.00
ATOM	108	H	ARG	7	-10.077	-14.269	-1.345	1.00	0.00
ATOM	109	CA	ARG	7	-10.592	-16.152	-0.493	1.00	0.00
ATOM	110	HA	ARG	7	-11.514	-16.388	0.039	1.00	0.00
ATOM	111	CB	ARG	7	-10.185	-17.365	-1.325	1.00	0.00
ATOM	112	HB2	ARG	7	-10.002	-18.169	-0.611	1.00	0.00
ATOM	113	HB3	ARG	7	-11.053	-17.613	-1.935	1.00	0.00
ATOM	114	CG	ARG	7	-9.002	-17.201	-2.195	1.00	0.00
ATOM	115	HG2	ARG	7	-9.201	-16.456	-2.965	1.00	0.00
ATOM	116	HG3	ARG	7	-8.140	-16.890	-1.604	1.00	0.00
ATOM	117	CD	ARG	7	-8.714	-18.523	-2.841	1.00	0.00
ATOM	118	HD2	ARG	7	-8.369	-19.224	-2.081	1.00	0.00
ATOM	119	HD3	ARG	7	-9.628	-18.904	-3.298	1.00	0.00
ATOM	120	NE	ARG	7	-7.693	-18.410	-3.867	1.00	0.00
ATOM	121	HE	ARG	7	-7.363	-17.483	-4.094	1.00	0.00
ATOM	122	CZ	ARG	7	-7.138	-19.446	-4.478	1.00	0.00
ATOM	123	NH1	ARG	7	-7.504	-20.671	-4.138	1.00	0.00
ATOM	124	HH11	ARG	7	-8.200	-20.806	-3.419	1.00	0.00
ATOM	125	HH12	ARG	7	-7.085	-21.466	-4.599	1.00	0.00
ATOM	126	NH2	ARG	7	-6.261	-19.260	-5.464	1.00	0.00
ATOM	127	HH21	ARG	7	-6.017	-18.322	-5.748	1.00	0.00
ATOM	128	HH22	ARG	7	-5.844	-20.058	-5.922	1.00	0.00
ATOM	129	C	ARG	7	-9.543	-15.802	0.522	1.00	0.00
ATOM	130	O	ARG	7	-8.552	-15.157	0.192	1.00	0.00
ATOM	131	N	PRO	8	-9.789	-16.157	1.795	1.00	0.00
ATOM	132	CD	PRO	8	-10.909	-17.012	2.225	1.00	0.00
ATOM	133	HD2	PRO	8	-11.140	-17.740	1.447	1.00	0.00
ATOM	134	HD3	PRO	8	-11.789	-16.400	2.422	1.00	0.00
ATOM	135	CG	PRO	8	-10.363	-17.656	3.479	1.00	0.00
ATOM	136	HG2	PRO	8	-9.680	-18.474	3.249	1.00	0.00
ATOM	137	HG3	PRO	8	-11.161	-18.021	4.126	1.00	0.00
ATOM	138	CB	PRO	8	-9.648	-16.511	4.110	1.00	0.00
ATOM	139	HB2	PRO	8	-8.942	-16.800	4.889	1.00	0.00
ATOM	140	HB3	PRO	8	-10.360	-15.792	4.514	1.00	0.00
ATOM	141	CA	PRO	8	-8.893	-15.892	2.925	1.00	0.00
ATOM	142	HA	PRO	8	-8.854	-14.808	3.033	1.00	0.00
ATOM	143	C	PRO	8	-7.473	-16.442	2.800	1.00	0.00
ATOM	144	O	PRO	8	-7.225	-17.472	2.164	1.00	0.00
ATOM	145	N	MET	9	-6.542	-15.703	3.379	1.00	0.00
ATOM	146	H	MET	9	-6.815	-14.855	3.855	1.00	0.00
ATOM	147	CA	MET	9	-5.140	-16.081	3.395	1.00	0.00
ATOM	148	HA	MET	9	-4.832	-16.450	2.417	1.00	0.00
ATOM	149	CB	MET	9	-4.293	-14.846	3.743	1.00	0.00
ATOM	150	HB2	MET	9	-4.494	-14.110	2.966	1.00	0.00
ATOM	151	HB3	MET	9	-4.669	-14.478	4.698	1.00	0.00
ATOM	152	CG	MET	9	-2.816	-15.075	3.843	1.00	0.00
ATOM	153	HG2	MET	9	-2.283	-14.133	3.972	1.00	0.00
ATOM	154	HG3	MET	9	-2.580	-15.742	4.673	1.00	0.00
ATOM	155	SD	MET	9	-2.319	-15.810	2.366	1.00	0.00
ATOM	156	CE	MET	9	-2.143	-14.448	1.294	1.00	0.00
ATOM	157	HE1	MET	9	-1.395	-13.764	1.695	1.00	0.00
ATOM	158	HE2	MET	9	-1.826	-14.797	0.312	1.00	0.00
ATOM	159	HE3	MET	9	-3.098	-13.930	1.205	1.00	0.00
ATOM	160	C	MET	9	-5.020	-17.130	4.501	1.00	0.00
ATOM	161	O	MET	9	-5.748	-17.099	5.492	1.00	0.00
ATOM	162	N	THR	10	-4.134	-18.084	4.328	1.00	0.00
ATOM	163	H	THR	10	-3.538	-18.111	3.513	1.00	0.00
ATOM	164	CA	THR	10	-3.957	-19.105	5.344	1.00	0.00
ATOM	165	HA	THR	10	-4.247	-18.702	6.315	1.00	0.00
ATOM	166	CB	THR	10	-4.829	-20.331	5.042	1.00	0.00
ATOM	167	HB	THR	10	-4.516	-21.157	5.682	1.00	0.00
ATOM	168	CG2	THR	10	-6.273	-20.020	5.299	1.00	0.00
ATOM	169	HG21	THR	10	-6.587	-19.195	4.660	1.00	0.00
ATOM	170	HG22	THR	10	-6.879	-20.899	5.081	1.00	0.00
ATOM	171	HG23	THR	10	-6.404	-19.740	6.344	1.00	0.00
ATOM	172	OG1	THR	10	-4.679	-20.704	3.661	1.00	0.00
ATOM	173	HG1	THR	10	-5.226	-21.471	3.476	1.00	0.00

ATOM	174	C	THR	10	-2.502	-19.487	5.243	1.00	0.00
ATOM	175	O	THR	10	-1.874	-19.228	4.204	1.00	0.00
ATOM	176	N	TYR	11	-1.958	-20.077	6.304	1.00	0.00
ATOM	177	H	TYR	11	-2.513	-20.234	7.133	1.00	0.00
ATOM	178	CA	TYR	11	-0.563	-20.510	6.313	1.00	0.00
ATOM	179	HA	TYR	11	0.099	-19.654	6.443	1.00	0.00
ATOM	180	CB	TYR	11	-0.342	-21.478	7.472	1.00	0.00
ATOM	181	HB2	TYR	11	-0.470	-20.877	8.372	1.00	0.00
ATOM	182	HB3	TYR	11	-1.117	-22.244	7.435	1.00	0.00
ATOM	183	CG	TYR	11	1.014	-22.136	7.496	1.00	0.00
ATOM	184	CD1	TYR	11	2.142	-21.455	7.943	1.00	0.00
ATOM	185	HD1	TYR	11	2.033	-20.440	8.325	1.00	0.00
ATOM	186	CE1	TYR	11	3.397	-22.054	7.907	1.00	0.00
ATOM	187	HE1	TYR	11	4.275	-21.531	8.286	1.00	0.00
ATOM	188	CZ	TYR	11	3.517	-23.339	7.421	1.00	0.00
ATOM	189	OH	TYR	11	4.733	-23.958	7.320	1.00	0.00
ATOM	190	HH	TYR	11	5.460	-23.407	7.618	1.00	0.00
ATOM	191	CE2	TYR	11	2.412	-24.026	6.985	1.00	0.00
ATOM	192	HE2	TYR	11	2.517	-25.043	6.606	1.00	0.00
ATOM	193	CD2	TYR	11	1.174	-23.433	7.026	1.00	0.00
ATOM	194	HD2	TYR	11	0.296	-23.982	6.686	1.00	0.00
ATOM	195	C	TYR	11	-0.286	-21.193	4.987	1.00	0.00
ATOM	196	O	TYR	11	0.554	-20.752	4.193	1.00	0.00
ATOM	197	N	LYS	12	-1.109	-22.178	4.675	1.00	0.00
ATOM	198	H	LYS	12	-1.826	-22.492	5.314	1.00	0.00
ATOM	199	CA	LYS	12	-0.933	-22.895	3.443	1.00	0.00
ATOM	200	HA	LYS	12	0.053	-23.359	3.426	1.00	0.00
ATOM	201	CB	LYS	12	-1.981	-23.981	3.300	1.00	0.00
ATOM	202	HB2	LYS	12	-1.966	-24.598	4.199	1.00	0.00
ATOM	203	HB3	LYS	12	-2.958	-23.509	3.201	1.00	0.00
ATOM	204	CG	LYS	12	-1.716	-24.844	2.095	1.00	0.00
ATOM	205	HG2	LYS	12	-1.385	-24.193	1.286	1.00	0.00
ATOM	206	HG3	LYS	12	-0.916	-25.539	2.353	1.00	0.00
ATOM	207	CD	LYS	12	-2.940	-25.625	1.647	1.00	0.00
ATOM	208	HD2	LYS	12	-3.111	-26.449	2.340	1.00	0.00
ATOM	209	HD3	LYS	12	-3.806	-24.963	1.650	1.00	0.00
ATOM	210	CE	LYS	12	-2.729	-26.177	0.247	1.00	0.00
ATOM	211	HE2	LYS	12	-2.169	-25.456	-0.348	1.00	0.00
ATOM	212	HE3	LYS	12	-2.172	-27.112	0.304	1.00	0.00
ATOM	213	NZ	LYS	12	-4.047	-26.425	-0.388	1.00	0.00
ATOM	214	HZ1	LYS	12	-4.563	-25.559	-0.441	1.00	0.00
ATOM	215	HZ2	LYS	12	-3.909	-26.792	-1.318	1.00	0.00
ATOM	216	HZ3	LYS	12	-4.566	-27.093	0.164	1.00	0.00
ATOM	217	C	LYS	12	-0.938	-21.993	2.223	1.00	0.00
ATOM	218	O	LYS	12	-0.106	-22.144	1.332	1.00	0.00
ATOM	219	N	ALA	13	-1.858	-21.046	2.149	1.00	0.00
ATOM	220	H	ALA	13	-2.590	-20.939	2.837	1.00	0.00
ATOM	221	CA	ALA	13	-1.879	-20.176	0.970	1.00	0.00
ATOM	222	HA	ALA	13	-1.866	-20.826	0.095	1.00	0.00
ATOM	223	CB	ALA	13	-3.145	-19.321	0.925	1.00	0.00
ATOM	224	HB1	ALA	13	-3.167	-18.659	1.790	1.00	0.00
ATOM	225	HB2	ALA	13	-3.150	-18.726	0.012	1.00	0.00
ATOM	226	HB3	ALA	13	-4.022	-19.968	0.941	1.00	0.00
ATOM	227	C	ALA	13	-0.633	-19.303	0.901	1.00	0.00
ATOM	228	O	ALA	13	-0.134	-19.046	-0.193	1.00	0.00
ATOM	229	N	ALA	14	-0.110	-18.866	2.048	1.00	0.00
ATOM	230	H	ALA	14	-0.540	-19.076	2.938	1.00	0.00
ATOM	231	CA	ALA	14	1.086	-18.028	2.038	1.00	0.00
ATOM	232	HA	ALA	14	0.978	-17.212	1.324	1.00	0.00
ATOM	233	CB	ALA	14	1.355	-17.442	3.402	1.00	0.00
ATOM	234	HB1	ALA	14	1.475	-18.248	4.127	1.00	0.00
ATOM	235	HB2	ALA	14	2.267	-16.846	3.369	1.00	0.00
ATOM	236	HB3	ALA	14	0.518	-16.810	3.698	1.00	0.00
ATOM	237	C	ALA	14	2.254	-18.877	1.575	1.00	0.00
ATOM	238	O	ALA	14	3.026	-18.450	0.704	1.00	0.00
ATOM	239	N	VAL	15	2.364	-20.096	2.115	1.00	0.00
ATOM	240	H	VAL	15	1.742	-20.379	2.859	1.00	0.00
ATOM	241	CA	VAL	15	3.431	-21.030	1.701	1.00	0.00
ATOM	242	HA	VAL	15	4.391	-20.528	1.819	1.00	0.00
ATOM	243	CB	VAL	15	3.451	-22.340	2.533	1.00	0.00
ATOM	244	HB	VAL	15	2.481	-22.832	2.458	1.00	0.00
ATOM	245	CG1	VAL	15	4.517	-23.254	2.008	1.00	0.00
ATOM	246	HG11	VAL	15	5.487	-22.763	2.084	1.00	0.00
ATOM	247	HG12	VAL	15	4.529	-24.173	2.594	1.00	0.00
ATOM	248	HG13	VAL	15	4.311	-23.492	0.965	1.00	0.00
ATOM	249	CG2	VAL	15	3.740	-22.035	3.974	1.00	0.00
ATOM	250	HG21	VAL	15	2.968	-21.375	4.368	1.00	0.00

ATOM	251	HG22	VAL	15	3.751	-22.962	4.547	1.00	0.00
ATOM	252	HG23	VAL	15	4.711	-21.547	4.055	1.00	0.00
ATOM	253	C	VAL	15	3.308	-21.372	0.212	1.00	0.00
ATOM	254	O	VAL	15	4.310	-21.417	-0.512	1.00	0.00
ATOM	255	N	ASP	16	2.089	-21.582	-0.262	1.00	0.00
ATOM	256	H	ASP	16	1.280	-21.617	0.342	1.00	0.00
ATOM	257	CA	ASP	16	1.911	-21.877	-1.660	1.00	0.00
ATOM	258	HA	ASP	16	2.595	-22.671	-1.960	1.00	0.00
ATOM	259	CB	ASP	16	0.486	-22.335	-1.930	1.00	0.00
ATOM	260	HB2	ASP	16	-0.182	-21.616	-1.455	1.00	0.00
ATOM	261	HB3	ASP	16	0.319	-22.330	-3.007	1.00	0.00
ATOM	262	CG	ASP	16	0.205	-23.728	-1.380	1.00	0.00
ATOM	263	OD1	ASP	16	1.161	-24.416	-0.967	1.00	0.00
ATOM	264	OD2	ASP	16	-0.973	-24.154	-1.368	1.00	0.00
ATOM	265	C	ASP	16	2.296	-20.697	-2.543	1.00	0.00
ATOM	266	O	ASP	16	2.959	-20.889	-3.557	1.00	0.00
ATOM	267	N	LEU	17	1.917	-19.477	-2.168	1.00	0.00
ATOM	268	H	LEU	17	1.367	-19.338	-1.332	1.00	0.00
ATOM	269	CA	LEU	17	2.268	-18.308	-2.969	1.00	0.00
ATOM	270	HA	LEU	17	1.893	-18.446	-3.983	1.00	0.00
ATOM	271	CB	LEU	17	1.671	-17.022	-2.398	1.00	0.00
ATOM	272	HB2	LEU	17	1.802	-17.199	-1.330	1.00	0.00
ATOM	273	HB3	LEU	17	2.378	-16.261	-2.729	1.00	0.00
ATOM	274	CG	LEU	17	0.241	-16.541	-2.664	1.00	0.00
ATOM	275	HG	LEU	17	-0.474	-17.299	-2.344	1.00	0.00
ATOM	276	CD1	LEU	17	0.011	-15.260	-1.871	1.00	0.00
ATOM	277	HD11	LEU	17	0.726	-14.501	-2.190	1.00	0.00
ATOM	278	HD12	LEU	17	-1.003	-14.901	-2.046	1.00	0.00
ATOM	279	HD13	LEU	17	0.146	-15.461	-0.808	1.00	0.00
ATOM	280	CD2	LEU	17	0.017	-16.300	-4.154	1.00	0.00
ATOM	281	HD21	LEU	17	0.182	-17.228	-4.701	1.00	0.00
ATOM	282	HD22	LEU	17	-1.005	-15.959	-4.318	1.00	0.00
ATOM	283	HD23	LEU	17	0.714	-15.541	-4.508	1.00	0.00
ATOM	284	C	LEU	17	3.773	-18.129	-3.053	1.00	0.00
ATOM	285	O	LEU	17	4.292	-17.751	-4.104	1.00	0.00
ATOM	286	N	SER	18	4.473	-18.371	-1.942	1.00	0.00
ATOM	287	H	SER	18	3.996	-18.647	-1.095	1.00	0.00
ATOM	288	CA	SER	18	5.927	-18.226	-1.902	1.00	0.00
ATOM	289	HA	SER	18	6.199	-17.189	-2.099	1.00	0.00
ATOM	290	CB	SER	18	6.469	-18.619	-0.534	1.00	0.00
ATOM	291	HB2	SER	18	6.243	-19.672	-0.362	1.00	0.00
ATOM	292	HB3	SER	18	7.549	-18.475	-0.536	1.00	0.00
ATOM	293	OG	SER	18	5.890	-17.837	0.498	1.00	0.00
ATOM	294	HG	SER	18	6.251	-18.108	1.346	1.00	0.00
ATOM	295	C	SER	18	6.587	-19.086	-2.956	1.00	0.00
ATOM	296	O	SER	18	7.383	-18.608	-3.752	1.00	0.00
ATOM	297	N	HIE	19	6.233	-20.363	-2.984	1.00	0.00
ATOM	298	H	HIE	19	5.602	-20.746	-2.294	1.00	0.00
ATOM	299	CA	HIE	19	6.839	-21.273	-3.945	1.00	0.00
ATOM	300	HA	HIE	19	7.915	-21.103	-3.981	1.00	0.00
ATOM	301	CB	HIE	19	6.585	-22.740	-3.549	1.00	0.00
ATOM	302	HB2	HIE	19	5.523	-22.970	-3.460	1.00	0.00
ATOM	303	HB3	HIE	19	7.030	-23.374	-4.316	1.00	0.00
ATOM	304	CG	HIE	19	7.221	-23.133	-2.243	1.00	0.00
ATOM	305	ND1	HIE	19	6.508	-23.686	-1.201	1.00	0.00
ATOM	306	CE1	HIE	19	7.311	-23.872	-0.167	1.00	0.00
ATOM	307	HE1	HIE	19	6.930	-24.299	0.761	1.00	0.00
ATOM	308	NE2	HIE	19	8.523	-23.465	-0.501	1.00	0.00
ATOM	309	HE2	HIE	19	9.342	-23.486	0.090	1.00	0.00
ATOM	310	CD2	HIE	19	8.496	-23.003	-1.796	1.00	0.00
ATOM	311	HD2	HIE	19	9.408	-22.627	-2.259	1.00	0.00
ATOM	312	C	HIE	19	6.356	-20.966	-5.345	1.00	0.00
ATOM	313	O	HIE	19	7.082	-21.148	-6.316	1.00	0.00
ATOM	314	N	PHE	20	5.144	-20.451	-5.450	1.00	0.00
ATOM	315	H	PHE	20	4.568	-20.311	-4.632	1.00	0.00
ATOM	316	CA	PHE	20	4.591	-20.107	-6.751	1.00	0.00
ATOM	317	HA	PHE	20	4.640	-20.965	-7.421	1.00	0.00
ATOM	318	CB	PHE	20	3.128	-19.696	-6.591	1.00	0.00
ATOM	319	HB2	PHE	20	2.522	-20.558	-6.312	1.00	0.00
ATOM	320	HB3	PHE	20	3.045	-18.930	-5.820	1.00	0.00
ATOM	321	CG	PHE	20	2.517	-19.126	-7.827	1.00	0.00
ATOM	322	CD1	PHE	20	2.129	-19.950	-8.864	1.00	0.00
ATOM	323	HD1	PHE	20	2.277	-21.027	-8.778	1.00	0.00
ATOM	324	CE1	PHE	20	1.554	-19.418	-10.009	1.00	0.00
ATOM	325	HE1	PHE	20	1.249	-20.076	-10.823	1.00	0.00
ATOM	326	CZ	PHE	20	1.367	-18.047	-10.117	1.00	0.00
ATOM	327	HZ	PHE	20	0.917	-17.626	-11.016	1.00	0.00

ATOM	328	CE2	PHE	20	1.752	-17.216	-9.083	1.00	0.00
ATOM	329	HE2	PHE	20	1.607	-16.139	-9.161	1.00	0.00
ATOM	330	CD2	PHE	20	2.322	-17.755	-7.948	1.00	0.00
ATOM	331	HD2	PHE	20	2.627	-17.104	-7.129	1.00	0.00
ATOM	332	C	PHE	20	5.413	-18.978	-7.358	1.00	0.00
ATOM	333	O	PHE	20	5.917	-19.101	-8.469	1.00	0.00
ATOM	334	N	LEU	21	5.580	-17.896	-6.603	1.00	0.00
ATOM	335	H	LEU	21	5.123	-17.854	-5.703	1.00	0.00
ATOM	336	CA	LEU	21	6.342	-16.731	-7.049	1.00	0.00
ATOM	337	HA	LEU	21	6.001	-16.421	-8.037	1.00	0.00
ATOM	338	CB	LEU	21	6.147	-15.561	-6.073	1.00	0.00
ATOM	339	HB2	LEU	21	6.392	-15.997	-5.104	1.00	0.00
ATOM	340	HB3	LEU	21	6.867	-14.778	-6.311	1.00	0.00
ATOM	341	CG	LEU	21	4.737	-14.960	-6.021	1.00	0.00
ATOM	342	HG	LEU	21	4.010	-15.768	-5.941	1.00	0.00
ATOM	343	CD1	LEU	21	4.599	-14.044	-4.838	1.00	0.00
ATOM	344	HD11	LEU	21	5.326	-13.236	-4.917	1.00	0.00
ATOM	345	HD12	LEU	21	3.592	-13.627	-4.816	1.00	0.00
ATOM	346	HD13	LEU	21	4.779	-14.605	-3.920	1.00	0.00
ATOM	347	CD2	LEU	21	4.432	-14.237	-7.331	1.00	0.00
ATOM	348	HD21	LEU	21	4.491	-14.944	-8.159	1.00	0.00
ATOM	349	HD22	LEU	21	3.429	-13.813	-7.287	1.00	0.00
ATOM	350	HD23	LEU	21	5.158	-13.438	-7.483	1.00	0.00
ATOM	351	C	LEU	21	7.816	-17.061	-7.202	1.00	0.00
ATOM	352	O	LEU	21	8.547	-16.374	-7.912	1.00	0.00
ATOM	353	N	LYS	22	8.272	-18.090	-6.504	1.00	0.00
ATOM	354	H	LYS	22	7.683	-18.591	-5.854	1.00	0.00
ATOM	355	CA	LYS	22	9.661	-18.495	-6.626	1.00	0.00
ATOM	356	HA	LYS	22	10.305	-17.616	-6.611	1.00	0.00
ATOM	357	CB	LYS	22	10.057	-19.415	-5.455	1.00	0.00
ATOM	358	HB2	LYS	22	9.449	-19.124	-4.598	1.00	0.00
ATOM	359	HB3	LYS	22	9.806	-20.435	-5.748	1.00	0.00
ATOM	360	CG	LYS	22	11.543	-19.343	-5.076	1.00	0.00
ATOM	361	HG2	LYS	22	12.126	-19.460	-5.989	1.00	0.00
ATOM	362	HG3	LYS	22	11.731	-18.358	-4.649	1.00	0.00
ATOM	363	CD	LYS	22	11.951	-20.420	-4.070	1.00	0.00
ATOM	364	HD2	LYS	22	11.821	-20.017	-3.065	1.00	0.00
ATOM	365	HD3	LYS	22	11.294	-21.280	-4.203	1.00	0.00
ATOM	366	CE	LYS	22	13.416	-20.858	-4.262	1.00	0.00
ATOM	367	HE2	LYS	22	13.626	-21.639	-3.531	1.00	0.00
ATOM	368	HE3	LYS	22	13.509	-21.268	-5.267	1.00	0.00
ATOM	369	NZ	LYS	22	14.389	-19.740	-4.089	1.00	0.00
ATOM	370	HZ1	LYS	22	14.303	-19.360	-3.157	1.00	0.00
ATOM	371	HZ2	LYS	22	15.328	-20.087	-4.226	1.00	0.00
ATOM	372	HZ3	LYS	22	14.195	-19.017	-4.766	1.00	0.00
ATOM	373	C	LYS	22	9.789	-19.197	-7.993	1.00	0.00
ATOM	374	O	LYS	22	10.725	-18.944	-8.744	1.00	0.00
ATOM	375	N	GLU	23	8.806	-20.033	-8.329	1.00	0.00
ATOM	376	H	GLU	23	8.036	-20.178	-7.691	1.00	0.00
ATOM	377	CA	GLU	23	8.790	-20.742	-9.609	1.00	0.00
ATOM	378	HA	GLU	23	9.627	-21.439	-9.646	1.00	0.00
ATOM	379	CB	GLU	23	7.479	-21.535	-9.797	1.00	0.00
ATOM	380	HB2	GLU	23	6.669	-20.814	-9.689	1.00	0.00
ATOM	381	HB3	GLU	23	7.496	-21.913	-10.819	1.00	0.00
ATOM	382	CG	GLU	23	7.255	-22.709	-8.819	1.00	0.00
ATOM	383	HG2	GLU	23	7.856	-23.546	-9.176	1.00	0.00
ATOM	384	HG3	GLU	23	7.624	-22.387	-7.845	1.00	0.00
ATOM	385	CD	GLU	23	5.769	-23.156	-8.689	1.00	0.00
ATOM	386	OE1	GLU	23	4.970	-22.957	-9.643	1.00	0.00
ATOM	387	OE2	GLU	23	5.401	-23.714	-7.622	1.00	0.00
ATOM	388	C	GLU	23	8.896	-19.660	-10.684	1.00	0.00
ATOM	389	O	GLU	23	9.829	-19.659	-11.481	1.00	0.00
ATOM	390	N	LYS	24	7.952	-18.720	-10.680	1.00	0.00
ATOM	391	H	LYS	24	7.226	-18.753	-9.978	1.00	0.00
ATOM	392	CA	LYS	24	7.945	-17.612	-11.634	1.00	0.00
ATOM	393	HA	LYS	24	8.171	-17.978	-12.635	1.00	0.00
ATOM	394	CB	LYS	24	6.565	-16.953	-11.654	1.00	0.00
ATOM	395	HB2	LYS	24	5.831	-17.657	-12.047	1.00	0.00
ATOM	396	HB3	LYS	24	6.285	-16.665	-10.641	1.00	0.00
ATOM	397	CG	LYS	24	6.606	-15.714	-12.541	1.00	0.00
ATOM	398	HG2	LYS	24	7.340	-15.010	-12.148	1.00	0.00
ATOM	399	HG3	LYS	24	6.886	-16.002	-13.554	1.00	0.00
ATOM	400	CD	LYS	24	5.230	-15.056	-12.561	1.00	0.00
ATOM	401	HD2	LYS	24	4.496	-15.760	-12.954	1.00	0.00
ATOM	402	HD3	LYS	24	4.950	-14.768	-11.548	1.00	0.00
ATOM	403	CE	LYS	24	5.272	-13.817	-13.449	1.00	0.00
ATOM	404	HE2	LYS	24	6.005	-13.112	-13.056	1.00	0.00

ATOM	405	HE3	LYS	24	5.552	-14.105	-14.462	1.00	0.00
ATOM	406	NZ	LYS	24	3.945	-13.184	-13.468	1.00	0.00
ATOM	407	HZ1	LYS	24	3.686	-12.917	-12.529	1.00	0.00
ATOM	408	HZ2	LYS	24	3.972	-12.363	-14.056	1.00	0.00
ATOM	409	HZ3	LYS	24	3.266	-13.837	-13.832	1.00	0.00
ATOM	410	C	LYS	24	8.974	-16.614	-11.131	1.00	0.00
ATOM	411	O	LYS	24	8.639	-15.453	-10.886	1.00	0.00
ATOM	412	N	GLY	25	10.210	-17.088	-10.945	1.00	0.00
ATOM	413	H	GLY	25	10.397	-18.054	-11.173	1.00	0.00
ATOM	414	CA	GLY	25	11.302	-16.278	-10.428	1.00	0.00
ATOM	415	HA2	GLY	25	11.256	-16.344	-9.341	1.00	0.00
ATOM	416	HA3	GLY	25	12.227	-16.734	-10.780	1.00	0.00
ATOM	417	C	GLY	25	11.286	-14.823	-10.833	1.00	0.00
ATOM	418	O	GLY	25	11.024	-14.510	-11.995	1.00	0.00
ATOM	419	N	GLY	26	11.548	-13.933	-9.880	1.00	0.00
ATOM	420	H	GLY	26	11.750	-14.221	-8.933	1.00	0.00
ATOM	421	CA	GLY	26	11.550	-12.513	-10.183	1.00	0.00
ATOM	422	HA2	GLY	26	12.379	-12.326	-10.865	1.00	0.00
ATOM	423	HA3	GLY	26	10.609	-12.284	-10.684	1.00	0.00
ATOM	424	C	GLY	26	11.695	-11.614	-8.971	1.00	0.00
ATOM	425	O	GLY	26	12.240	-10.526	-9.084	1.00	0.00
ATOM	426	N	LEU	27	11.195	-12.047	-7.817	1.00	0.00
ATOM	427	H	LEU	27	10.743	-12.949	-7.762	1.00	0.00
ATOM	428	CA	LEU	27	11.292	-11.247	-6.601	1.00	0.00
ATOM	429	HA	LEU	27	11.070	-10.205	-6.832	1.00	0.00
ATOM	430	CB	LEU	27	10.305	-11.733	-5.545	1.00	0.00
ATOM	431	HB2	LEU	27	10.455	-12.813	-5.520	1.00	0.00
ATOM	432	HB3	LEU	27	10.677	-11.294	-4.619	1.00	0.00
ATOM	433	CG	LEU	27	8.830	-11.432	-5.689	1.00	0.00
ATOM	434	HG	LEU	27	8.445	-11.905	-6.592	1.00	0.00
ATOM	435	CD1	LEU	27	8.098	-11.972	-4.490	1.00	0.00
ATOM	436	HD11	LEU	27	8.482	-11.500	-3.586	1.00	0.00
ATOM	437	HD12	LEU	27	7.034	-11.759	-4.587	1.00	0.00
ATOM	438	HD13	LEU	27	8.248	-13.050	-4.427	1.00	0.00
ATOM	439	CD2	LEU	27	8.646	-9.942	-5.772	1.00	0.00
ATOM	440	HD21	LEU	27	9.188	-9.556	-6.635	1.00	0.00
ATOM	441	HD22	LEU	27	7.586	-9.712	-5.876	1.00	0.00
ATOM	442	HD23	LEU	27	9.031	-9.477	-4.864	1.00	0.00
ATOM	443	C	LEU	27	12.664	-11.319	-5.982	1.00	0.00
ATOM	444	O	LEU	27	13.075	-10.423	-5.248	1.00	0.00
ATOM	445	N	GLU	28	13.357	-12.415	-6.242	1.00	0.00
ATOM	446	H	GLU	28	12.962	-13.148	-6.814	1.00	0.00
ATOM	447	CA	GLU	28	14.667	-12.631	-5.654	1.00	0.00
ATOM	448	HA	GLU	28	14.573	-12.712	-4.571	1.00	0.00
ATOM	449	CB	GLU	28	15.295	-13.909	-6.183	1.00	0.00
ATOM	450	HB2	GLU	28	14.494	-14.600	-6.447	1.00	0.00
ATOM	451	HB3	GLU	28	15.871	-13.663	-7.075	1.00	0.00
ATOM	452	CG	GLU	28	16.195	-14.552	-5.167	1.00	0.00
ATOM	453	HG2	GLU	28	16.552	-15.489	-5.595	1.00	0.00
ATOM	454	HG3	GLU	28	17.045	-13.906	-4.947	1.00	0.00
ATOM	455	CD	GLU	28	15.445	-14.835	-3.904	1.00	0.00
ATOM	456	OE1	GLU	28	14.356	-15.466	-3.985	1.00	0.00
ATOM	457	OE2	GLU	28	15.932	-14.392	-2.845	1.00	0.00
ATOM	458	C	GLU	28	15.617	-11.490	-5.866	1.00	0.00
ATOM	459	O	GLU	28	15.934	-11.140	-6.991	1.00	0.00
ATOM	460	N	GLY	29	16.055	-10.892	-4.775	1.00	0.00
ATOM	461	H	GLY	29	15.769	-11.177	-3.849	1.00	0.00
ATOM	462	CA	GLY	29	16.974	-9.792	-4.897	1.00	0.00
ATOM	463	HA2	GLY	29	17.357	-9.557	-3.904	1.00	0.00
ATOM	464	HA3	GLY	29	17.797	-10.106	-5.538	1.00	0.00
ATOM	465	C	GLY	29	16.335	-8.551	-5.486	1.00	0.00
ATOM	466	O	GLY	29	16.925	-7.474	-5.374	1.00	0.00
ATOM	467	N	LEU	30	15.149	-8.671	-6.094	1.00	0.00
ATOM	468	H	LEU	30	14.706	-9.575	-6.179	1.00	0.00
ATOM	469	CA	LEU	30	14.474	-7.511	-6.671	1.00	0.00
ATOM	470	HA	LEU	30	15.034	-7.154	-7.535	1.00	0.00
ATOM	471	CB	LEU	30	13.059	-7.873	-7.121	1.00	0.00
ATOM	472	HB2	LEU	30	13.202	-8.647	-7.875	1.00	0.00
ATOM	473	HB3	LEU	30	12.557	-8.301	-6.253	1.00	0.00
ATOM	474	CG	LEU	30	12.198	-6.742	-7.704	1.00	0.00
ATOM	475	HG	LEU	30	12.107	-5.949	-6.962	1.00	0.00
ATOM	476	CD1	LEU	30	12.823	-6.191	-8.951	1.00	0.00
ATOM	477	HD11	LEU	30	12.913	-6.984	-9.693	1.00	0.00
ATOM	478	HD12	LEU	30	12.198	-5.391	-9.348	1.00	0.00
ATOM	479	HD13	LEU	30	13.812	-5.797	-8.718	1.00	0.00
ATOM	480	CD2	LEU	30	10.805	-7.239	-8.020	1.00	0.00
ATOM	481	HD21	LEU	30	10.334	-7.606	-7.108	1.00	0.00

ATOM	482	HD22	LEU	30	10.212	-6.423	-8.431	1.00	0.00
ATOM	483	HD23	LEU	30	10.864	-8.048	-8.748	1.00	0.00
ATOM	484	C	LEU	30	14.436	-6.420	-5.606	1.00	0.00
ATOM	485	O	LEU	30	14.167	-6.695	-4.437	1.00	0.00
ATOM	486	N	ILE	31	14.795	-5.200	-5.986	1.00	0.00
ATOM	487	H	ILE	31	15.078	-5.013	-6.937	1.00	0.00
ATOM	488	CA	ILE	31	14.806	-4.097	-5.032	1.00	0.00
ATOM	489	HA	ILE	31	15.347	-4.390	-4.132	1.00	0.00
ATOM	490	CB	ILE	31	15.442	-2.828	-5.622	1.00	0.00
ATOM	491	HB	ILE	31	14.856	-2.494	-6.478	1.00	0.00
ATOM	492	CG2	ILE	31	15.469	-1.723	-4.559	1.00	0.00
ATOM	493	HG21	ILE	31	16.055	-2.057	-3.702	1.00	0.00
ATOM	494	HG22	ILE	31	15.920	-0.825	-4.979	1.00	0.00
ATOM	495	HG23	ILE	31	14.451	-1.502	-4.238	1.00	0.00
ATOM	496	CG1	ILE	31	16.863	-3.120	-6.133	1.00	0.00
ATOM	497	HG12	ILE	31	16.799	-3.995	-6.780	1.00	0.00
ATOM	498	HG13	ILE	31	17.178	-2.257	-6.719	1.00	0.00
ATOM	499	CD1	ILE	31	17.871	-3.378	-5.034	1.00	0.00
ATOM	500	HD11	ILE	31	17.557	-4.241	-4.447	1.00	0.00
ATOM	501	HD12	ILE	31	18.848	-3.576	-5.475	1.00	0.00
ATOM	502	HD13	ILE	31	17.936	-2.504	-4.387	1.00	0.00
ATOM	503	C	ILE	31	13.388	-3.774	-4.607	1.00	0.00
ATOM	504	O	ILE	31	12.519	-3.559	-5.431	1.00	0.00
ATOM	505	N	HIE	32	13.146	-3.791	-3.309	1.00	0.00
ATOM	506	H	HIE	32	13.875	-4.013	-2.646	1.00	0.00
ATOM	507	CA	HIE	32	11.828	-3.495	-2.803	1.00	0.00
ATOM	508	HA	HIE	32	11.096	-4.124	-3.309	1.00	0.00
ATOM	509	CB	HIE	32	11.741	-3.755	-1.307	1.00	0.00
ATOM	510	HB2	HIE	32	12.113	-4.750	-1.063	1.00	0.00
ATOM	511	HB3	HIE	32	12.325	-3.008	-0.769	1.00	0.00
ATOM	512	CG	HIE	32	10.350	-3.676	-0.772	1.00	0.00
ATOM	513	ND1	HIE	32	9.961	-2.752	0.171	1.00	0.00
ATOM	514	CE1	HIE	32	8.686	-2.935	0.464	1.00	0.00
ATOM	515	HE1	HIE	32	8.186	-2.302	1.198	1.00	0.00
ATOM	516	NE2	HIE	32	8.236	-3.942	-0.260	1.00	0.00
ATOM	517	HE2	HIE	32	7.295	-4.308	-0.246	1.00	0.00
ATOM	518	CD2	HIE	32	9.253	-4.421	-1.042	1.00	0.00
ATOM	519	HD2	HIE	32	9.074	-5.258	-1.717	1.00	0.00
ATOM	520	C	HIE	32	11.488	-2.052	-3.052	1.00	0.00
ATOM	521	O	HIE	32	12.359	-1.194	-3.046	1.00	0.00
ATOM	522	N	SER	33	10.188	-1.805	-3.147	1.00	0.00
ATOM	523	H	SER	33	9.575	-2.596	-3.009	1.00	0.00
ATOM	524	CA	SER	33	9.588	-0.498	-3.374	1.00	0.00
ATOM	525	HA	SER	33	10.099	0.263	-2.784	1.00	0.00
ATOM	526	CB	SER	33	9.715	-0.135	-4.857	1.00	0.00
ATOM	527	HB2	SER	33	10.749	0.149	-5.051	1.00	0.00
ATOM	528	HB3	SER	33	9.464	-1.017	-5.446	1.00	0.00
ATOM	529	OG	SER	33	8.856	0.934	-5.217	1.00	0.00
ATOM	530	HG	SER	33	8.964	1.131	-6.150	1.00	0.00
ATOM	531	C	SER	33	8.116	-0.695	-3.013	1.00	0.00
ATOM	532	O	SER	33	7.465	-1.618	-3.520	1.00	0.00
ATOM	533	N	GLN	34	7.590	0.127	-2.119	1.00	0.00
ATOM	534	H	GLN	34	8.141	0.843	-1.667	1.00	0.00
ATOM	535	CA	GLN	34	6.189	-0.010	-1.740	1.00	0.00
ATOM	536	HA	GLN	34	6.054	-0.921	-1.156	1.00	0.00
ATOM	537	CB	GLN	34	5.739	1.177	-0.901	1.00	0.00
ATOM	538	HB2	GLN	34	6.482	1.327	-0.117	1.00	0.00
ATOM	539	HB3	GLN	34	5.716	2.051	-1.551	1.00	0.00
ATOM	540	CG	GLN	34	4.380	0.981	-0.275	1.00	0.00
ATOM	541	HG2	GLN	34	4.137	1.860	0.322	1.00	0.00
ATOM	542	HG3	GLN	34	3.626	0.850	-1.051	1.00	0.00
ATOM	543	CD	GLN	34	4.363	-0.228	0.620	1.00	0.00
ATOM	544	OE1	GLN	34	5.350	-0.516	1.299	1.00	0.00
ATOM	545	NE2	GLN	34	3.253	-0.957	0.622	1.00	0.00
ATOM	546	HE21	GLN	34	3.193	-1.779	1.207	1.00	0.00
ATOM	547	HE22	GLN	34	2.474	-0.687	0.039	1.00	0.00
ATOM	548	C	GLN	34	5.307	-0.119	-2.987	1.00	0.00
ATOM	549	O	GLN	34	4.360	-0.900	-3.033	1.00	0.00
ATOM	550	N	ARG	35	5.642	0.649	-4.008	1.00	0.00
ATOM	551	H	ARG	35	6.440	1.265	-3.942	1.00	0.00
ATOM	552	CA	ARG	35	4.891	0.629	-5.243	1.00	0.00
ATOM	553	HA	ARG	35	3.838	0.834	-5.051	1.00	0.00
ATOM	554	CB	ARG	35	5.432	1.699	-6.174	1.00	0.00
ATOM	555	HB2	ARG	35	6.198	2.245	-5.622	1.00	0.00
ATOM	556	HB3	ARG	35	5.890	1.185	-7.019	1.00	0.00
ATOM	557	CG	ARG	35	4.407	2.651	-6.671	1.00	0.00
ATOM	558	HG2	ARG	35	3.879	3.065	-5.812	1.00	0.00

ATOM	559	HG3	ARG	35	4.916	3.453	-7.205	1.00	0.00
ATOM	560	CD	ARG	35	3.430	1.989	-7.582	1.00	0.00
ATOM	561	HD2	ARG	35	3.956	1.427	-8.353	1.00	0.00
ATOM	562	HD3	ARG	35	2.787	1.314	-7.017	1.00	0.00
ATOM	563	NE	ARG	35	2.600	2.996	-8.223	1.00	0.00
ATOM	564	HE	ARG	35	2.588	3.012	-9.233	1.00	0.00
ATOM	565	CZ	ARG	35	1.857	3.879	-7.567	1.00	0.00
ATOM	566	NH1	ARG	35	1.826	3.886	-6.244	1.00	0.00
ATOM	567	HH11	ARG	35	2.373	3.213	-5.725	1.00	0.00
ATOM	568	HH12	ARG	35	1.256	4.564	-5.759	1.00	0.00
ATOM	569	NH2	ARG	35	1.147	4.770	-8.242	1.00	0.00
ATOM	570	HH21	ARG	35	1.175	4.773	-9.251	1.00	0.00
ATOM	571	HH22	ARG	35	0.581	5.442	-7.744	1.00	0.00
ATOM	572	C	ARG	35	5.024	-0.727	-5.921	1.00	0.00
ATOM	573	O	ARG	35	4.038	-1.297	-6.399	1.00	0.00
ATOM	574	N	ARG	36	6.256	-1.224	-5.995	1.00	0.00
ATOM	575	H	ARG	36	7.041	-0.697	-5.640	1.00	0.00
ATOM	576	CA	ARG	36	6.516	-2.510	-6.623	1.00	0.00
ATOM	577	HA	ARG	36	6.189	-2.486	-7.662	1.00	0.00
ATOM	578	CB	ARG	36	8.009	-2.832	-6.588	1.00	0.00
ATOM	579	HB2	ARG	36	8.378	-2.563	-5.598	1.00	0.00
ATOM	580	HB3	ARG	36	8.115	-3.907	-6.734	1.00	0.00
ATOM	581	CG	ARG	36	8.804	-2.103	-7.635	1.00	0.00
ATOM	582	HG2	ARG	36	8.549	-2.514	-8.612	1.00	0.00
ATOM	583	HG3	ARG	36	8.534	-1.048	-7.603	1.00	0.00
ATOM	584	CD	ARG	36	10.273	-2.248	-7.402	1.00	0.00
ATOM	585	HD2	ARG	36	10.610	-1.480	-6.705	1.00	0.00
ATOM	586	HD3	ARG	36	10.482	-3.233	-6.984	1.00	0.00
ATOM	587	NE	ARG	36	11.010	-2.104	-8.647	1.00	0.00
ATOM	588	HE	ARG	36	10.600	-1.518	-9.360	1.00	0.00
ATOM	589	CZ	ARG	36	12.223	-2.608	-8.860	1.00	0.00
ATOM	590	NH1	ARG	36	12.846	-3.277	-7.902	1.00	0.00
ATOM	591	HH11	ARG	36	12.398	-3.405	-7.006	1.00	0.00
ATOM	592	HH12	ARG	36	13.767	-3.657	-8.071	1.00	0.00
ATOM	593	NH2	ARG	36	12.776	-2.538	-10.067	1.00	0.00
ATOM	594	HH21	ARG	36	12.272	-2.100	-10.825	1.00	0.00
ATOM	595	HH22	ARG	36	13.697	-2.923	-10.220	1.00	0.00
ATOM	596	C	ARG	36	5.719	-3.588	-5.910	1.00	0.00
ATOM	597	O	ARG	36	5.112	-4.446	-6.549	1.00	0.00
ATOM	598	N	GLN	37	5.663	-3.493	-4.587	1.00	0.00
ATOM	599	H	GLN	37	6.163	-2.760	-4.104	1.00	0.00
ATOM	600	CA	GLN	37	4.932	-4.462	-3.795	1.00	0.00
ATOM	601	HA	GLN	37	5.150	-5.468	-4.155	1.00	0.00
ATOM	602	CB	GLN	37	5.326	-4.375	-2.333	1.00	0.00
ATOM	603	HB2	GLN	37	6.400	-4.547	-2.264	1.00	0.00
ATOM	604	HB3	GLN	37	5.096	-3.369	-1.983	1.00	0.00
ATOM	605	CG	GLN	37	4.610	-5.370	-1.488	1.00	0.00
ATOM	606	HG2	GLN	37	3.541	-5.386	-1.700	1.00	0.00
ATOM	607	HG3	GLN	37	5.038	-6.348	-1.708	1.00	0.00
ATOM	608	CD	GLN	37	4.801	-5.084	-0.056	1.00	0.00
ATOM	609	OE1	GLN	37	5.877	-4.701	0.351	1.00	0.00
ATOM	610	NE2	GLN	37	3.748	-5.209	0.726	1.00	0.00
ATOM	611	HE21	GLN	37	3.832	-5.023	1.715	1.00	0.00
ATOM	612	HE22	GLN	37	2.861	-5.490	0.333	1.00	0.00
ATOM	613	C	GLN	37	3.429	-4.290	-3.915	1.00	0.00
ATOM	614	O	GLN	37	2.716	-5.286	-3.991	1.00	0.00
ATOM	615	N	ASP	38	2.947	-3.042	-3.883	1.00	0.00
ATOM	616	H	ASP	38	3.593	-2.272	-3.785	1.00	0.00
ATOM	617	CA	ASP	38	1.511	-2.739	-3.999	1.00	0.00
ATOM	618	HA	ASP	38	0.980	-3.195	-3.163	1.00	0.00
ATOM	619	CB	ASP	38	1.248	-1.235	-3.982	1.00	0.00
ATOM	620	HB2	ASP	38	2.010	-0.769	-4.606	1.00	0.00
ATOM	621	HB3	ASP	38	0.265	-1.060	-4.418	1.00	0.00
ATOM	622	CG	ASP	38	1.297	-0.639	-2.600	1.00	0.00
ATOM	623	OD1	ASP	38	1.303	-1.402	-1.616	1.00	0.00
ATOM	624	OD2	ASP	38	1.319	0.606	-2.495	1.00	0.00
ATOM	625	C	ASP	38	1.008	-3.293	-5.310	1.00	0.00
ATOM	626	O	ASP	38	-0.121	-3.772	-5.393	1.00	0.00
ATOM	627	N	ILE	39	1.846	-3.199	-6.336	1.00	0.00
ATOM	628	H	ILE	39	2.737	-2.741	-6.209	1.00	0.00
ATOM	629	CA	ILE	39	1.521	-3.717	-7.647	1.00	0.00
ATOM	630	HA	ILE	39	0.558	-3.345	-7.997	1.00	0.00
ATOM	631	CB	ILE	39	2.602	-3.321	-8.629	1.00	0.00
ATOM	632	HB	ILE	39	3.569	-3.626	-8.228	1.00	0.00
ATOM	633	CG2	ILE	39	2.382	-3.980	-9.963	1.00	0.00
ATOM	634	HG21	ILE	39	1.415	-3.676	-10.364	1.00	0.00
ATOM	635	HG22	ILE	39	3.172	-3.680	-10.651	1.00	0.00

ATOM	636	HG23	ILE	39	2.399	-5.063	-9.841	1.00	0.00
ATOM	637	CG1	ILE	39	2.613	-1.796	-8.761	1.00	0.00
ATOM	638	HG12	ILE	39	1.650	-1.505	-9.180	1.00	0.00
ATOM	639	HG13	ILE	39	2.709	-1.389	-7.754	1.00	0.00
ATOM	640	CD1	ILE	39	3.726	-1.256	-9.631	1.00	0.00
ATOM	641	HD11	ILE	39	3.631	-1.663	-10.638	1.00	0.00
ATOM	642	HD12	ILE	39	3.661	-0.169	-9.671	1.00	0.00
ATOM	643	HD13	ILE	39	4.689	-1.547	-9.212	1.00	0.00
ATOM	644	C	ILE	39	1.409	-5.239	-7.556	1.00	0.00
ATOM	645	O	ILE	39	0.426	-5.830	-8.021	1.00	0.00
ATOM	646	N	LEU	40	2.395	-5.857	-6.902	1.00	0.00
ATOM	647	H	LEU	40	3.148	-5.301	-6.523	1.00	0.00
ATOM	648	CA	LEU	40	2.439	-7.304	-6.709	1.00	0.00
ATOM	649	HA	LEU	40	2.509	-7.803	-7.675	1.00	0.00
ATOM	650	CB	LEU	40	3.664	-7.700	-5.860	1.00	0.00
ATOM	651	HB2	LEU	40	4.376	-6.919	-6.126	1.00	0.00
ATOM	652	HB3	LEU	40	3.330	-7.552	-4.833	1.00	0.00
ATOM	653	CG	LEU	40	4.348	-9.086	-5.986	1.00	0.00
ATOM	654	HG	LEU	40	4.961	-9.104	-6.887	1.00	0.00
ATOM	655	CD1	LEU	40	5.223	-9.342	-4.776	1.00	0.00
ATOM	656	HD11	LEU	40	4.611	-9.325	-3.874	1.00	0.00
ATOM	657	HD12	LEU	40	5.700	-10.318	-4.872	1.00	0.00
ATOM	658	HD13	LEU	40	5.988	-8.569	-4.710	1.00	0.00
ATOM	659	CD2	LEU	40	3.344	-10.211	-6.119	1.00	0.00
ATOM	660	HD21	LEU	40	2.736	-10.053	-7.009	1.00	0.00
ATOM	661	HD22	LEU	40	3.871	-11.161	-6.204	1.00	0.00
ATOM	662	HD23	LEU	40	2.701	-10.231	-5.239	1.00	0.00
ATOM	663	C	LEU	40	1.177	-7.776	-5.995	1.00	0.00
ATOM	664	O	LEU	40	0.514	-8.724	-6.432	1.00	0.00
ATOM	665	N	ASP	41	0.838	-7.119	-4.897	1.00	0.00
ATOM	666	H	ASP	41	1.425	-6.384	-4.529	1.00	0.00
ATOM	667	CA	ASP	41	-0.331	-7.514	-4.133	1.00	0.00
ATOM	668	HA	ASP	41	-0.287	-8.581	-3.915	1.00	0.00
ATOM	669	CB	ASP	41	-0.389	-6.757	-2.828	1.00	0.00
ATOM	670	HB2	ASP	41	-0.365	-5.690	-3.049	1.00	0.00
ATOM	671	HB3	ASP	41	-1.329	-7.004	-2.335	1.00	0.00
ATOM	672	CG	ASP	41	0.755	-7.106	-1.925	1.00	0.00
ATOM	673	OD1	ASP	41	1.519	-8.017	-2.271	1.00	0.00
ATOM	674	OD2	ASP	41	0.897	-6.473	-0.872	1.00	0.00
ATOM	675	C	ASP	41	-1.635	-7.378	-4.861	1.00	0.00
ATOM	676	O	ASP	41	-2.525	-8.203	-4.683	1.00	0.00
ATOM	677	N	LEU	42	-1.754	-6.349	-5.691	1.00	0.00
ATOM	678	H	LEU	42	-1.010	-5.674	-5.796	1.00	0.00
ATOM	679	CA	LEU	42	-2.982	-6.144	-6.443	1.00	0.00
ATOM	680	HA	LEU	42	-3.835	-6.223	-5.769	1.00	0.00
ATOM	681	CB	LEU	42	-3.008	-4.765	-7.106	1.00	0.00
ATOM	682	HB2	LEU	42	-2.051	-4.710	-7.624	1.00	0.00
ATOM	683	HB3	LEU	42	-3.816	-4.782	-7.837	1.00	0.00
ATOM	684	CG	LEU	42	-3.167	-3.546	-6.199	1.00	0.00
ATOM	685	HG	LEU	42	-2.436	-3.586	-5.391	1.00	0.00
ATOM	686	CD1	LEU	42	-2.939	-2.300	-7.024	1.00	0.00
ATOM	687	HD11	LEU	42	-3.670	-2.260	-7.832	1.00	0.00
ATOM	688	HD12	LEU	42	-3.049	-1.420	-6.391	1.00	0.00
ATOM	689	HD13	LEU	42	-1.934	-2.321	-7.445	1.00	0.00
ATOM	690	CD2	LEU	42	-4.555	-3.541	-5.560	1.00	0.00
ATOM	691	HD21	LEU	42	-4.686	-4.446	-4.967	1.00	0.00
ATOM	692	HD22	LEU	42	-4.656	-2.668	-4.916	1.00	0.00
ATOM	693	HD23	LEU	42	-5.315	-3.506	-6.340	1.00	0.00
ATOM	694	C	LEU	42	-3.094	-7.233	-7.483	1.00	0.00
ATOM	695	O	LEU	42	-4.189	-7.728	-7.740	1.00	0.00
ATOM	696	N	TRP	43	-1.966	-7.625	-8.064	1.00	0.00
ATOM	697	H	TRP	43	-1.095	-7.161	-7.850	1.00	0.00
ATOM	698	CA	TRP	43	-1.957	-8.685	-9.067	1.00	0.00
ATOM	699	HA	TRP	43	-2.628	-8.429	-9.886	1.00	0.00
ATOM	700	CB	TRP	43	-0.540	-8.866	-9.632	1.00	0.00
ATOM	701	HB2	TRP	43	-0.261	-7.944	-10.142	1.00	0.00
ATOM	702	HB3	TRP	43	0.185	-9.080	-8.847	1.00	0.00
ATOM	703	CG	TRP	43	-0.418	-9.967	-10.640	1.00	0.00
ATOM	704	CD1	TRP	43	-0.768	-9.926	-11.964	1.00	0.00
ATOM	705	HD1	TRP	43	-1.144	-8.976	-12.343	1.00	0.00
ATOM	706	NE1	TRP	43	-0.558	-11.148	-12.547	1.00	0.00
ATOM	707	HE1	TRP	43	-0.741	-11.382	-13.512	1.00	0.00
ATOM	708	CE2	TRP	43	-0.060	-12.005	-11.602	1.00	0.00
ATOM	709	CZ2	TRP	43	0.302	-13.343	-11.709	1.00	0.00
ATOM	710	HZ2	TRP	43	0.193	-13.834	-12.676	1.00	0.00
ATOM	711	CH2	TRP	43	0.777	-13.965	-10.583	1.00	0.00
ATOM	712	HH2	TRP	43	1.069	-15.014	-10.631	1.00	0.00

ATOM	713	CZ3	TRP	43	0.897	-13.282	-9.366	1.00	0.00
ATOM	714	HZ3	TRP	43	1.277	-13.783	-8.475	1.00	0.00
ATOM	715	CE3	TRP	43	0.536	-11.950	-9.259	1.00	0.00
ATOM	716	HE3	TRP	43	0.641	-11.464	-8.289	1.00	0.00
ATOM	717	CD2	TRP	43	0.046	-11.292	-10.392	1.00	0.00
ATOM	718	C	TRP	43	-2.483	-9.989	-8.447	1.00	0.00
ATOM	719	O	TRP	43	-3.380	-10.618	-8.987	1.00	0.00
ATOM	720	N	ILE	44	-1.979	-10.345	-7.273	1.00	0.00
ATOM	721	H	ILE	44	-1.251	-9.778	-6.861	1.00	0.00
ATOM	722	CA	ILE	44	-2.402	-11.559	-6.562	1.00	0.00
ATOM	723	HA	ILE	44	-2.410	-12.466	-7.167	1.00	0.00
ATOM	724	CB	ILE	44	-1.515	-11.781	-5.312	1.00	0.00
ATOM	725	HB	ILE	44	-1.452	-10.838	-4.768	1.00	0.00
ATOM	726	CG2	ILE	44	-2.081	-12.871	-4.384	1.00	0.00
ATOM	727	HG21	ILE	44	-2.143	-13.815	-4.926	1.00	0.00
ATOM	728	HG22	ILE	44	-1.425	-12.991	-3.521	1.00	0.00
ATOM	729	HG23	ILE	44	-3.076	-12.581	-4.046	1.00	0.00
ATOM	730	CG1	ILE	44	-0.071	-12.036	-5.754	1.00	0.00
ATOM	731	HG12	ILE	44	0.011	-13.082	-6.049	1.00	0.00
ATOM	732	HG13	ILE	44	0.135	-11.400	-6.614	1.00	0.00
ATOM	733	CD1	ILE	44	0.932	-11.741	-4.657	1.00	0.00
ATOM	734	HD11	ILE	44	0.727	-12.378	-3.796	1.00	0.00
ATOM	735	HD12	ILE	44	1.940	-11.938	-5.022	1.00	0.00
ATOM	736	HD13	ILE	44	0.851	-10.695	-4.362	1.00	0.00
ATOM	737	C	ILE	44	-3.871	-11.479	-6.149	1.00	0.00
ATOM	738	O	ILE	44	-4.574	-12.491	-6.110	1.00	0.00
ATOM	739	N	TYR	45	-4.326	-10.281	-5.807	1.00	0.00
ATOM	740	H	TYR	45	-3.695	-9.492	-5.793	1.00	0.00
ATOM	741	CA	TYR	45	-5.714	-10.063	-5.419	1.00	0.00
ATOM	742	HA	TYR	45	-5.979	-10.709	-4.582	1.00	0.00
ATOM	743	CB	TYR	45	-5.900	-8.609	-4.991	1.00	0.00
ATOM	744	HB2	TYR	45	-5.265	-8.448	-4.120	1.00	0.00
ATOM	745	HB3	TYR	45	-5.541	-7.999	-5.819	1.00	0.00
ATOM	746	CG	TYR	45	-7.314	-8.221	-4.659	1.00	0.00
ATOM	747	CD1	TYR	45	-8.181	-9.120	-4.059	1.00	0.00
ATOM	748	HD1	TYR	45	-7.824	-10.126	-3.838	1.00	0.00
ATOM	749	CE1	TYR	45	-9.472	-8.763	-3.742	1.00	0.00
ATOM	750	HE1	TYR	45	-10.148	-9.482	-3.278	1.00	0.00
ATOM	751	CZ	TYR	45	-9.911	-7.484	-4.023	1.00	0.00
ATOM	752	OH	TYR	45	-11.205	-7.108	-3.695	1.00	0.00
ATOM	753	HH	TYR	45	-11.706	-7.813	-3.278	1.00	0.00
ATOM	754	CE2	TYR	45	-9.060	-6.575	-4.624	1.00	0.00
ATOM	755	HE2	TYR	45	-9.404	-5.566	-4.849	1.00	0.00
ATOM	756	CD2	TYR	45	-7.777	-6.949	-4.937	1.00	0.00
ATOM	757	HD2	TYR	45	-7.103	-6.238	-5.413	1.00	0.00
ATOM	758	C	TYR	45	-6.647	-10.393	-6.590	1.00	0.00
ATOM	759	O	TYR	45	-7.583	-11.165	-6.426	1.00	0.00
ATOM	760	N	HIE	46	-6.375	-9.823	-7.765	1.00	0.00
ATOM	761	H	HIE	46	-5.579	-9.206	-7.840	1.00	0.00
ATOM	762	CA	HIE	46	-7.194	-10.049	-8.958	1.00	0.00
ATOM	763	HA	HIE	46	-8.241	-9.845	-8.732	1.00	0.00
ATOM	764	CB	HIE	46	-6.747	-9.119	-10.103	1.00	0.00
ATOM	765	HB2	HIE	46	-7.126	-8.108	-9.957	1.00	0.00
ATOM	766	HB3	HIE	46	-5.657	-9.098	-10.126	1.00	0.00
ATOM	767	CG	HIE	46	-7.200	-9.556	-11.474	1.00	0.00
ATOM	768	ND1	HIE	46	-6.727	-10.519	-12.312	1.00	0.00
ATOM	769	CE1	HIE	46	-7.489	-10.478	-13.457	1.00	0.00
ATOM	770	HE1	HIE	46	-7.287	-11.168	-14.276	1.00	0.00
ATOM	771	NE2	HIE	46	-8.398	-9.525	-13.329	1.00	0.00
ATOM	772	HE2	HIE	46	-9.095	-9.266	-14.012	1.00	0.00
ATOM	773	CD2	HIE	46	-8.247	-8.954	-12.143	1.00	0.00
ATOM	774	HD2	HIE	46	-8.906	-8.140	-11.842	1.00	0.00
ATOM	775	C	HIE	46	-7.079	-11.479	-9.428	1.00	0.00
ATOM	776	O	HIE	46	-8.068	-12.096	-9.794	1.00	0.00
ATOM	777	N	THR	47	-5.833	-11.930	-9.519	1.00	0.00
ATOM	778	H	THR	47	-5.111	-11.253	-9.318	1.00	0.00
ATOM	779	CA	THR	47	-5.430	-13.259	-9.971	1.00	0.00
ATOM	780	HA	THR	47	-5.896	-13.516	-10.922	1.00	0.00
ATOM	781	CB	THR	47	-3.920	-13.231	-10.161	1.00	0.00
ATOM	782	HB	THR	47	-3.489	-12.700	-9.312	1.00	0.00
ATOM	783	CG2	THR	47	-3.323	-14.583	-10.252	1.00	0.00
ATOM	784	HG21	THR	47	-3.753	-15.115	-11.101	1.00	0.00
ATOM	785	HG22	THR	47	-2.245	-14.497	-10.387	1.00	0.00
ATOM	786	HG23	THR	47	-3.531	-15.135	-9.335	1.00	0.00
ATOM	787	OG1	THR	47	-3.645	-12.532	-11.367	1.00	0.00
ATOM	788	HG1	THR	47	-2.696	-12.501	-11.509	1.00	0.00
ATOM	789	C	THR	47	-5.844	-14.445	-9.096	1.00	0.00

ATOM	790	O	THR	47	-6.490	-15.380	-9.575	1.00	0.00
ATOM	791	N	GLN	48	-5.486	-14.384	-7.819	1.00	0.00
ATOM	792	H	GLN	48	-4.887	-13.631	-7.513	1.00	0.00
ATOM	793	CA	GLN	48	-5.788	-15.443	-6.883	1.00	0.00
ATOM	794	HA	GLN	48	-6.275	-16.277	-7.389	1.00	0.00
ATOM	795	CB	GLN	48	-4.490	-15.939	-6.270	1.00	0.00
ATOM	796	HB2	GLN	48	-4.104	-15.151	-5.623	1.00	0.00
ATOM	797	HB3	GLN	48	-4.719	-16.820	-5.671	1.00	0.00
ATOM	798	CG	GLN	48	-3.441	-16.296	-7.317	1.00	0.00
ATOM	799	HG2	GLN	48	-3.236	-15.386	-7.880	1.00	0.00
ATOM	800	HG3	GLN	48	-2.527	-16.633	-6.827	1.00	0.00
ATOM	801	CD	GLN	48	-3.899	-17.375	-8.287	1.00	0.00
ATOM	802	OE1	GLN	48	-4.839	-18.114	-8.015	1.00	0.00
ATOM	803	NE2	GLN	48	-3.204	-17.493	-9.410	1.00	0.00
ATOM	804	HE21	GLN	48	-3.464	-18.193	-10.090	1.00	0.00
ATOM	805	HE22	GLN	48	-2.418	-16.883	-9.580	1.00	0.00
ATOM	806	C	GLN	48	-6.844	-15.157	-5.800	1.00	0.00
ATOM	807	O	GLN	48	-7.279	-16.078	-5.113	1.00	0.00
ATOM	808	N	GLY	49	-7.223	-13.901	-5.587	1.00	0.00
ATOM	809	H	GLY	49	-6.802	-13.115	-6.062	1.00	0.00
ATOM	810	CA	GLY	49	-8.287	-13.640	-4.632	1.00	0.00
ATOM	811	HA2	GLY	49	-8.821	-12.781	-5.037	1.00	0.00
ATOM	812	HA3	GLY	49	-8.927	-14.521	-4.679	1.00	0.00
ATOM	813	C	GLY	49	-7.937	-13.365	-3.191	1.00	0.00
ATOM	814	O	GLY	49	-8.802	-13.379	-2.308	1.00	0.00
ATOM	815	N	TYR	50	-6.668	-13.096	-2.933	1.00	0.00
ATOM	816	H	TYR	50	-5.978	-13.101	-3.670	1.00	0.00
ATOM	817	CA	TYR	50	-6.228	-12.802	-1.578	1.00	0.00
ATOM	818	HA	TYR	50	-6.906	-13.257	-0.856	1.00	0.00
ATOM	819	CB	TYR	50	-4.831	-13.367	-1.356	1.00	0.00
ATOM	820	HB2	TYR	50	-4.133	-12.933	-2.071	1.00	0.00
ATOM	821	HB3	TYR	50	-4.542	-13.078	-0.345	1.00	0.00
ATOM	822	CG	TYR	50	-4.803	-14.866	-1.475	1.00	0.00
ATOM	823	CD1	TYR	50	-5.561	-15.644	-0.607	1.00	0.00
ATOM	824	HD1	TYR	50	-6.131	-15.147	0.178	1.00	0.00
ATOM	825	CE1	TYR	50	-5.601	-17.014	-0.724	1.00	0.00
ATOM	826	HE1	TYR	50	-6.188	-17.612	-0.027	1.00	0.00
ATOM	827	CZ	TYR	50	-4.879	-17.630	-1.719	1.00	0.00
ATOM	828	OH	TYR	50	-4.981	-18.993	-1.799	1.00	0.00
ATOM	829	HH	TYR	50	-5.561	-19.366	-1.131	1.00	0.00
ATOM	830	CE2	TYR	50	-4.098	-16.890	-2.610	1.00	0.00
ATOM	831	HE2	TYR	50	-3.522	-17.379	-3.395	1.00	0.00
ATOM	832	CD2	TYR	50	-4.063	-15.510	-2.482	1.00	0.00
ATOM	833	HD2	TYR	50	-3.458	-14.915	-3.165	1.00	0.00
ATOM	834	C	TYR	50	-6.230	-11.293	-1.399	1.00	0.00
ATOM	835	O	TYR	50	-5.483	-10.580	-2.083	1.00	0.00
ATOM	836	N	PHE	51	-7.125	-10.806	-0.547	1.00	0.00
ATOM	837	H	PHE	51	-7.758	-11.437	-0.077	1.00	0.00
ATOM	838	CA	PHE	51	-7.235	-9.386	-0.268	1.00	0.00
ATOM	839	HA	PHE	51	-7.630	-8.861	-1.138	1.00	0.00
ATOM	840	CB	PHE	51	-8.181	-9.165	0.904	1.00	0.00
ATOM	841	HB2	PHE	51	-9.032	-9.832	0.767	1.00	0.00
ATOM	842	HB3	PHE	51	-7.717	-9.363	1.871	1.00	0.00
ATOM	843	CG	PHE	51	-8.726	-7.790	0.969	1.00	0.00
ATOM	844	CD1	PHE	51	-9.762	-7.412	0.131	1.00	0.00
ATOM	845	HD1	PHE	51	-10.216	-8.153	-0.527	1.00	0.00
ATOM	846	CE1	PHE	51	-10.222	-6.104	0.125	1.00	0.00
ATOM	847	HE1	PHE	51	-11.035	-5.809	-0.538	1.00	0.00
ATOM	848	CZ	PHE	51	-9.642	-5.169	0.970	1.00	0.00
ATOM	849	HZ	PHE	51	-9.998	-4.139	0.968	1.00	0.00
ATOM	850	CE2	PHE	51	-8.609	-5.545	1.819	1.00	0.00
ATOM	851	HE2	PHE	51	-8.154	-4.814	2.488	1.00	0.00
ATOM	852	CD2	PHE	51	-8.161	-6.845	1.814	1.00	0.00
ATOM	853	HD2	PHE	51	-7.352	-7.145	2.480	1.00	0.00
ATOM	854	C	PHE	51	-5.843	-8.861	0.067	1.00	0.00
ATOM	855	O	PHE	51	-5.173	-9.389	0.955	1.00	0.00
ATOM	856	N	PRO	52	-5.389	-7.818	-0.643	1.00	0.00
ATOM	857	CD	PRO	52	-6.097	-7.098	-1.712	1.00	0.00
ATOM	858	HD2	PRO	52	-7.148	-6.976	-1.449	1.00	0.00
ATOM	859	HD3	PRO	52	-6.019	-7.648	-2.650	1.00	0.00
ATOM	860	CG	PRO	52	-5.359	-5.797	-1.750	1.00	0.00
ATOM	861	HG2	PRO	52	-5.686	-5.135	-0.948	1.00	0.00
ATOM	862	HG3	PRO	52	-5.492	-5.298	-2.709	1.00	0.00
ATOM	863	CB	PRO	52	-3.968	-6.213	-1.566	1.00	0.00
ATOM	864	HB2	PRO	52	-3.299	-5.401	-1.281	1.00	0.00
ATOM	865	HB3	PRO	52	-3.587	-6.699	-2.464	1.00	0.00
ATOM	866	CA	PRO	52	-4.068	-7.227	-0.428	1.00	0.00

ATOM	867	HA	PRO	52	-3.350	-8.036	-0.563	1.00	0.00
ATOM	868	C	PRO	52	-3.840	-6.571	0.917	1.00	0.00
ATOM	869	O	PRO	52	-3.837	-5.349	1.012	1.00	0.00
ATOM	870	N	ASP	53	-3.668	-7.367	1.963	1.00	0.00
ATOM	871	H	ASP	53	-3.753	-8.369	1.870	1.00	0.00
ATOM	872	CA	ASP	53	-3.405	-6.813	3.292	1.00	0.00
ATOM	873	HA	ASP	53	-2.803	-5.909	3.199	1.00	0.00
ATOM	874	CB	ASP	53	-4.713	-6.459	4.005	1.00	0.00
ATOM	875	HB2	ASP	53	-4.442	-5.976	4.944	1.00	0.00
ATOM	876	HB3	ASP	53	-5.265	-5.756	3.381	1.00	0.00
ATOM	877	CG	ASP	53	-5.574	-7.659	4.290	1.00	0.00
ATOM	878	OD1	ASP	53	-5.364	-8.716	3.668	1.00	0.00
ATOM	879	OD2	ASP	53	-6.487	-7.548	5.134	1.00	0.00
ATOM	880	C	ASP	53	-2.600	-7.808	4.115	1.00	0.00
ATOM	881	O	ASP	53	-2.482	-7.695	5.337	1.00	0.00
ATOM	882	N	TRP	54	-2.012	-8.767	3.419	1.00	0.00
ATOM	883	H	TRP	54	-2.151	-8.824	2.420	1.00	0.00
ATOM	884	CA	TRP	54	-1.251	-9.811	4.065	1.00	0.00
ATOM	885	HA	TRP	54	-1.515	-9.882	5.120	1.00	0.00
ATOM	886	CB	TRP	54	-1.573	-11.149	3.389	1.00	0.00
ATOM	887	HB2	TRP	54	-1.030	-11.999	3.803	1.00	0.00
ATOM	888	HB3	TRP	54	-2.644	-11.312	3.506	1.00	0.00
ATOM	889	CG	TRP	54	-1.302	-11.141	1.937	1.00	0.00
ATOM	890	CD1	TRP	54	-2.114	-10.675	0.941	1.00	0.00
ATOM	891	HD1	TRP	54	-3.105	-10.329	1.235	1.00	0.00
ATOM	892	NE1	TRP	54	-1.464	-10.751	-0.278	1.00	0.00
ATOM	893	HE1	TRP	54	-1.839	-10.461	-1.170	1.00	0.00
ATOM	894	CE2	TRP	54	-0.216	-11.282	-0.073	1.00	0.00
ATOM	895	CZ2	TRP	54	0.812	-11.549	-0.978	1.00	0.00
ATOM	896	HZ2	TRP	54	0.652	-11.325	-2.032	1.00	0.00
ATOM	897	CH2	TRP	54	1.969	-12.082	-0.475	1.00	0.00
ATOM	898	HH2	TRP	54	2.794	-12.303	-1.152	1.00	0.00
ATOM	899	CZ3	TRP	54	2.121	-12.353	0.895	1.00	0.00
ATOM	900	HZ3	TRP	54	3.049	-12.778	1.279	1.00	0.00
ATOM	901	CE3	TRP	54	1.117	-12.094	1.786	1.00	0.00
ATOM	902	HE3	TRP	54	1.294	-12.311	2.840	1.00	0.00
ATOM	903	CD2	TRP	54	-0.085	-11.545	1.309	1.00	0.00
ATOM	904	C	TRP	54	0.257	-9.567	4.103	1.00	0.00
ATOM	905	O	TRP	54	0.869	-9.650	5.161	1.00	0.00
ATOM	906	N	GLN	55	0.836	-9.192	2.968	1.00	0.00
ATOM	907	H	GLN	55	0.282	-9.129	2.126	1.00	0.00
ATOM	908	CA	GLN	55	2.269	-8.975	2.867	1.00	0.00
ATOM	909	HA	GLN	55	2.805	-9.789	3.356	1.00	0.00
ATOM	910	CB	GLN	55	2.690	-8.926	1.401	1.00	0.00
ATOM	911	HB2	GLN	55	2.276	-9.809	0.914	1.00	0.00
ATOM	912	HB3	GLN	55	2.248	-8.030	0.965	1.00	0.00
ATOM	913	CG	GLN	55	4.182	-8.897	1.203	1.00	0.00
ATOM	914	HG2	GLN	55	4.578	-8.044	1.755	1.00	0.00
ATOM	915	HG3	GLN	55	4.605	-9.817	1.607	1.00	0.00
ATOM	916	CD	GLN	55	4.598	-8.769	-0.255	1.00	0.00
ATOM	917	OE1	GLN	55	5.763	-8.563	-0.545	1.00	0.00
ATOM	918	NE2	GLN	55	3.653	-8.881	-1.170	1.00	0.00
ATOM	919	HE21	GLN	55	3.890	-8.802	-2.148	1.00	0.00
ATOM	920	HE22	GLN	55	2.697	-9.046	-0.887	1.00	0.00
ATOM	921	C	GLN	55	2.795	-7.755	3.598	1.00	0.00
ATOM	922	O	GLN	55	3.344	-6.859	2.972	1.00	0.00
ATOM	923	N	ASN	56	2.644	-7.731	4.920	1.00	0.00
ATOM	924	H	ASN	56	2.172	-8.505	5.366	1.00	0.00
ATOM	925	CA	ASN	56	3.130	-6.637	5.761	1.00	0.00
ATOM	926	HA	ASN	56	3.302	-5.749	5.154	1.00	0.00
ATOM	927	CB	ASN	56	2.102	-6.302	6.831	1.00	0.00
ATOM	928	HB2	ASN	56	1.832	-7.189	7.405	1.00	0.00
ATOM	929	HB3	ASN	56	2.560	-5.567	7.493	1.00	0.00
ATOM	930	CG	ASN	56	0.859	-5.713	6.251	1.00	0.00
ATOM	931	OD1	ASN	56	0.926	-4.853	5.365	1.00	0.00
ATOM	932	ND2	ASN	56	-0.287	-6.195	6.696	1.00	0.00
ATOM	933	HD21	ASN	56	-1.158	-5.832	6.337	1.00	0.00
ATOM	934	HD22	ASN	56	-0.287	-6.925	7.394	1.00	0.00
ATOM	935	C	ASN	56	4.430	-7.068	6.426	1.00	0.00
ATOM	936	O	ASN	56	4.541	-8.203	6.898	1.00	0.00
ATOM	937	N	TYR	57	5.410	-6.178	6.478	1.00	0.00
ATOM	938	H	TYR	57	5.314	-5.267	6.053	1.00	0.00
ATOM	939	CA	TYR	57	6.683	-6.525	7.079	1.00	0.00
ATOM	940	HA	TYR	57	6.699	-7.580	7.355	1.00	0.00
ATOM	941	CB	TYR	57	7.796	-6.268	6.076	1.00	0.00
ATOM	942	HB2	TYR	57	7.771	-5.208	5.825	1.00	0.00
ATOM	943	HB3	TYR	57	8.739	-6.502	6.570	1.00	0.00

ATOM	944	CG	TYR	57	7.672	-7.087	4.814	1.00	0.00
ATOM	945	CD1	TYR	57	8.072	-8.418	4.783	1.00	0.00
ATOM	946	HD1	TYR	57	8.484	-8.860	5.691	1.00	0.00
ATOM	947	CE1	TYR	57	7.956	-9.184	3.626	1.00	0.00
ATOM	948	HE1	TYR	57	8.250	-10.234	3.631	1.00	0.00
ATOM	949	CZ	TYR	57	7.445	-8.618	2.480	1.00	0.00
ATOM	950	OH	TYR	57	7.359	-9.370	1.318	1.00	0.00
ATOM	951	HH	TYR	57	7.683	-10.267	1.427	1.00	0.00
ATOM	952	CE2	TYR	57	7.043	-7.294	2.489	1.00	0.00
ATOM	953	HE2	TYR	57	6.637	-6.843	1.584	1.00	0.00
ATOM	954	CD2	TYR	57	7.157	-6.537	3.655	1.00	0.00
ATOM	955	HD2	TYR	57	6.838	-5.495	3.662	1.00	0.00
ATOM	956	C	TYR	57	6.946	-5.779	8.386	1.00	0.00
ATOM	957	O	TYR	57	6.317	-4.766	8.664	1.00	0.00
ATOM	958	N	THR	58	7.836	-6.309	9.213	1.00	0.00
ATOM	959	H	THR	58	8.328	-7.154	8.960	1.00	0.00
ATOM	960	CA	THR	58	8.164	-5.674	10.475	1.00	0.00
ATOM	961	HA	THR	58	7.273	-5.445	11.060	1.00	0.00
ATOM	962	CB	THR	58	9.097	-6.553	11.326	1.00	0.00
ATOM	963	HB	THR	58	9.512	-5.947	12.131	1.00	0.00
ATOM	964	CG2	THR	58	8.339	-7.738	11.921	1.00	0.00
ATOM	965	HG21	THR	58	7.924	-8.346	11.117	1.00	0.00
ATOM	966	HG22	THR	58	9.021	-8.344	12.518	1.00	0.00
ATOM	967	HG23	THR	58	7.530	-7.372	12.554	1.00	0.00
ATOM	968	OG1	THR	58	10.208	-6.989	10.524	1.00	0.00
ATOM	969	HG1	THR	58	10.790	-7.538	11.055	1.00	0.00
ATOM	970	C	THR	58	8.902	-4.390	10.171	1.00	0.00
ATOM	971	O	THR	58	9.351	-4.175	9.035	1.00	0.00
ATOM	972	N	PRO	59	9.052	-3.523	11.187	1.00	0.00
ATOM	973	CD	PRO	59	8.488	-3.682	12.537	1.00	0.00
ATOM	974	HD2	PRO	59	9.140	-4.312	13.143	1.00	0.00
ATOM	975	HD3	PRO	59	7.498	-4.135	12.478	1.00	0.00
ATOM	976	CG	PRO	59	8.440	-2.276	13.022	1.00	0.00
ATOM	977	HG2	PRO	59	8.416	-2.242	14.111	1.00	0.00
ATOM	978	HG3	PRO	59	7.568	-1.758	12.624	1.00	0.00
ATOM	979	CB	PRO	59	9.656	-1.707	12.505	1.00	0.00
ATOM	980	HB2	PRO	59	10.483	-2.103	13.095	1.00	0.00
ATOM	981	HB3	PRO	59	9.703	-0.618	12.500	1.00	0.00
ATOM	982	CA	PRO	59	9.737	-2.237	11.081	1.00	0.00
ATOM	983	HA	PRO	59	9.234	-1.645	10.316	1.00	0.00
ATOM	984	C	PRO	59	11.203	-2.401	10.712	1.00	0.00
ATOM	985	O	PRO	59	11.735	-3.516	10.674	1.00	0.00
ATOM	986	N	GLY	60	11.849	-1.282	10.421	1.00	0.00
ATOM	987	H	GLY	60	11.375	-0.391	10.386	1.00	0.00
ATOM	988	CA	GLY	60	13.266	-1.316	10.144	1.00	0.00
ATOM	989	HA2	GLY	60	13.603	-2.316	9.870	1.00	0.00
ATOM	990	HA3	GLY	60	13.544	-0.612	9.360	1.00	0.00
ATOM	991	C	GLY	60	13.946	-0.903	11.447	1.00	0.00
ATOM	992	O	GLY	60	13.274	-0.755	12.491	1.00	0.00
ATOM	993	N	PRO	61	15.281	-0.757	11.441	1.00	0.00
ATOM	994	CD	PRO	61	16.080	-0.128	12.511	1.00	0.00
ATOM	995	HD2	PRO	61	16.022	-0.732	13.417	1.00	0.00
ATOM	996	HD3	PRO	61	15.697	0.871	12.717	1.00	0.00
ATOM	997	CG	PRO	61	17.476	-0.102	11.916	1.00	0.00
ATOM	998	HG2	PRO	61	18.018	-1.010	12.182	1.00	0.00
ATOM	999	HG3	PRO	61	18.025	0.767	12.277	1.00	0.00
ATOM	1000	CB	PRO	61	17.248	-0.015	10.440	1.00	0.00
ATOM	1001	HB2	PRO	61	18.149	-0.410	9.970	1.00	0.00
ATOM	1002	HB3	PRO	61	17.001	0.950	9.998	1.00	0.00
ATOM	1003	CA	PRO	61	16.094	-0.986	10.243	1.00	0.00
ATOM	1004	HA	PRO	61	15.498	-0.810	9.348	1.00	0.00
ATOM	1005	C	PRO	61	16.575	-2.432	10.256	1.00	0.00
ATOM	1006	O	PRO	61	16.410	-3.131	11.250	1.00	0.00
ATOM	1007	N	GLY	62	17.184	-2.867	9.165	1.00	0.00
ATOM	1008	H	GLY	62	17.317	-2.266	8.364	1.00	0.00
ATOM	1009	CA	GLY	62	17.679	-4.227	9.093	1.00	0.00
ATOM	1010	HA2	GLY	62	18.691	-4.217	8.687	1.00	0.00
ATOM	1011	HA3	GLY	62	17.695	-4.654	10.096	1.00	0.00
ATOM	1012	C	GLY	62	16.802	-5.085	8.207	1.00	0.00
ATOM	1013	O	GLY	62	16.275	-4.612	7.201	1.00	0.00
ATOM	1014	N	VAL	63	16.698	-6.365	8.544	1.00	0.00
ATOM	1015	H	VAL	63	17.155	-6.711	9.376	1.00	0.00
ATOM	1016	CA	VAL	63	15.880	-7.283	7.777	1.00	0.00
ATOM	1017	HA	VAL	63	16.015	-7.096	6.712	1.00	0.00
ATOM	1018	CB	VAL	63	16.244	-8.740	8.067	1.00	0.00
ATOM	1019	HB	VAL	63	16.088	-8.948	9.126	1.00	0.00
ATOM	1020	CG1	VAL	63	15.381	-9.648	7.248	1.00	0.00

ATOM	1021	HG11	VAL	63	15.537	-9.441	6.190	1.00	0.00
ATOM	1022	HG12	VAL	63	15.643	-10.685	7.457	1.00	0.00
ATOM	1023	HG13	VAL	63	14.334	-9.481	7.501	1.00	0.00
ATOM	1024	CG2	VAL	63	17.694	-8.991	7.738	1.00	0.00
ATOM	1025	HG21	VAL	63	18.323	-8.340	8.345	1.00	0.00
ATOM	1026	HG22	VAL	63	17.940	-10.032	7.949	1.00	0.00
ATOM	1027	HG23	VAL	63	17.869	-8.784	6.683	1.00	0.00
ATOM	1028	C	VAL	63	14.469	-7.049	8.258	1.00	0.00
ATOM	1029	O	VAL	63	14.258	-6.861	9.463	1.00	0.00
ATOM	1030	N	ARG	64	13.518	-7.002	7.325	1.00	0.00
ATOM	1031	H	ARG	64	13.769	-7.075	6.350	1.00	0.00
ATOM	1032	CA	ARG	64	12.109	-6.809	7.666	1.00	0.00
ATOM	1033	HA	ARG	64	12.022	-6.516	8.712	1.00	0.00
ATOM	1034	CB	ARG	64	11.484	-5.713	6.796	1.00	0.00
ATOM	1035	HB2	ARG	64	11.807	-5.886	5.770	1.00	0.00
ATOM	1036	HB3	ARG	64	10.401	-5.823	6.859	1.00	0.00
ATOM	1037	CG	ARG	64	11.876	-4.305	7.221	1.00	0.00
ATOM	1038	HG2	ARG	64	11.327	-3.585	6.614	1.00	0.00
ATOM	1039	HG3	ARG	64	11.617	-4.166	8.271	1.00	0.00
ATOM	1040	CD	ARG	64	13.353	-4.093	7.037	1.00	0.00
ATOM	1041	HD2	ARG	64	13.872	-4.813	7.670	1.00	0.00
ATOM	1042	HD3	ARG	64	13.588	-4.293	5.992	1.00	0.00
ATOM	1043	NE	ARG	64	13.820	-2.754	7.373	1.00	0.00
ATOM	1044	HE	ARG	64	14.497	-2.687	8.120	1.00	0.00
ATOM	1045	CZ	ARG	64	13.367	-1.629	6.823	1.00	0.00
ATOM	1046	NH1	ARG	64	12.406	-1.653	5.912	1.00	0.00
ATOM	1047	HH11	ARG	64	12.007	-2.536	5.627	1.00	0.00
ATOM	1048	HH12	ARG	64	12.077	-0.789	5.507	1.00	0.00
ATOM	1049	NH2	ARG	64	13.934	-0.472	7.129	1.00	0.00
ATOM	1050	HH21	ARG	64	14.707	-0.448	7.778	1.00	0.00
ATOM	1051	HH22	ARG	64	13.590	0.381	6.712	1.00	0.00
ATOM	1052	C	ARG	64	11.420	-8.143	7.461	1.00	0.00
ATOM	1053	O	ARG	64	11.373	-8.659	6.348	1.00	0.00
ATOM	1054	N	TYR	65	10.925	-8.719	8.543	1.00	0.00
ATOM	1055	H	TYR	65	11.029	-8.283	9.448	1.00	0.00
ATOM	1056	CA	TYR	65	10.299	-10.029	8.478	1.00	0.00
ATOM	1057	HA	TYR	65	10.713	-10.599	7.647	1.00	0.00
ATOM	1058	CB	TYR	65	10.556	-10.804	9.781	1.00	0.00
ATOM	1059	HB2	TYR	65	10.135	-10.282	10.640	1.00	0.00
ATOM	1060	HB3	TYR	65	10.037	-11.753	9.643	1.00	0.00
ATOM	1061	CG	TYR	65	12.032	-11.066	10.022	1.00	0.00
ATOM	1062	CD1	TYR	65	12.715	-12.027	9.290	1.00	0.00
ATOM	1063	HD1	TYR	65	12.158	-12.650	8.590	1.00	0.00
ATOM	1064	CE1	TYR	65	14.061	-12.199	9.435	1.00	0.00
ATOM	1065	HE1	TYR	65	14.585	-12.970	8.870	1.00	0.00
ATOM	1066	CZ	TYR	65	14.751	-11.409	10.321	1.00	0.00
ATOM	1067	OH	TYR	65	16.114	-11.551	10.448	1.00	0.00
ATOM	1068	HH	TYR	65	16.476	-12.229	9.872	1.00	0.00
ATOM	1069	CE2	TYR	65	14.104	-10.462	11.064	1.00	0.00
ATOM	1070	HE2	TYR	65	14.656	-9.842	11.771	1.00	0.00
ATOM	1071	CD2	TYR	65	12.757	-10.295	10.917	1.00	0.00
ATOM	1072	HD2	TYR	65	12.233	-9.545	11.509	1.00	0.00
ATOM	1073	C	TYR	65	8.824	-9.959	8.190	1.00	0.00
ATOM	1074	O	TYR	65	8.137	-9.056	8.677	1.00	0.00
ATOM	1075	N	PRO	66	8.307	-10.926	7.406	1.00	0.00
ATOM	1076	CD	PRO	66	9.062	-12.034	6.801	1.00	0.00
ATOM	1077	HD2	PRO	66	9.786	-12.430	7.514	1.00	0.00
ATOM	1078	HD3	PRO	66	9.583	-11.691	5.907	1.00	0.00
ATOM	1079	CG	PRO	66	7.971	-13.011	6.487	1.00	0.00
ATOM	1080	HG2	PRO	66	7.672	-13.566	7.377	1.00	0.00
ATOM	1081	HG3	PRO	66	8.282	-13.710	5.711	1.00	0.00
ATOM	1082	CB	PRO	66	6.889	-12.143	6.008	1.00	0.00
ATOM	1083	HB2	PRO	66	5.944	-12.684	6.061	1.00	0.00
ATOM	1084	HB3	PRO	66	7.021	-11.741	5.004	1.00	0.00
ATOM	1085	CA	PRO	66	6.894	-11.011	7.026	1.00	0.00
ATOM	1086	HA	PRO	66	6.594	-10.058	6.591	1.00	0.00
ATOM	1087	C	PRO	66	6.019	-11.317	8.222	1.00	0.00
ATOM	1088	O	PRO	66	6.350	-12.182	9.021	1.00	0.00
ATOM	1089	N	LEU	67	4.924	-10.577	8.362	1.00	0.00
ATOM	1090	H	LEU	67	4.727	-9.837	7.704	1.00	0.00
ATOM	1091	CA	LEU	67	4.018	-10.762	9.481	1.00	0.00
ATOM	1092	HA	LEU	67	4.593	-10.962	10.386	1.00	0.00
ATOM	1093	CB	LEU	67	3.160	-9.509	9.711	1.00	0.00
ATOM	1094	HB2	LEU	67	2.563	-9.450	8.801	1.00	0.00
ATOM	1095	HB3	LEU	67	2.541	-9.883	10.527	1.00	0.00
ATOM	1096	CG	LEU	67	3.687	-8.115	10.067	1.00	0.00
ATOM	1097	HG	LEU	67	3.972	-7.558	9.175	1.00	0.00

ATOM	1098	CD1	LEU	67	2.547	-7.414	10.753	1.00	0.00
ATOM	1099	HD11	LEU	67	2.262	-7.971	11.646	1.00	0.00
ATOM	1100	HD12	LEU	67	2.856	-6.408	11.036	1.00	0.00
ATOM	1101	HD13	LEU	67	1.695	-7.355	10.075	1.00	0.00
ATOM	1102	CD2	LEU	67	4.827	-8.149	11.035	1.00	0.00
ATOM	1103	HD21	LEU	67	5.653	-8.715	10.604	1.00	0.00
ATOM	1104	HD22	LEU	67	5.155	-7.132	11.247	1.00	0.00
ATOM	1105	HD23	LEU	67	4.504	-8.626	11.961	1.00	0.00
ATOM	1106	C	LEU	67	3.104	-11.966	9.303	1.00	0.00
ATOM	1107	O	LEU	67	2.651	-12.538	10.287	1.00	0.00
ATOM	1108	N	THR	68	2.777	-12.308	8.059	1.00	0.00
ATOM	1109	H	THR	68	3.134	-11.771	7.282	1.00	0.00
ATOM	1110	CA	THR	68	1.908	-13.460	7.770	1.00	0.00
ATOM	1111	HA	THR	68	1.115	-13.508	8.517	1.00	0.00
ATOM	1112	CB	THR	68	1.254	-13.343	6.353	1.00	0.00
ATOM	1113	HB	THR	68	2.049	-13.203	5.621	1.00	0.00
ATOM	1114	CG2	THR	68	0.453	-14.576	5.998	1.00	0.00
ATOM	1115	HG21	THR	68	-0.342	-14.717	6.730	1.00	0.00
ATOM	1116	HG22	THR	68	0.016	-14.454	5.007	1.00	0.00
ATOM	1117	HG23	THR	68	1.107	-15.448	6.001	1.00	0.00
ATOM	1118	OG1	THR	68	0.376	-12.220	6.327	1.00	0.00
ATOM	1119	HG1	THR	68	-0.025	-12.148	5.458	1.00	0.00
ATOM	1120	C	THR	68	2.766	-14.718	7.818	1.00	0.00
ATOM	1121	O	THR	68	3.695	-14.860	7.038	1.00	0.00
ATOM	1122	N	PHE	69	2.477	-15.613	8.749	1.00	0.00
ATOM	1123	H	PHE	69	1.715	-15.461	9.394	1.00	0.00
ATOM	1124	CA	PHE	69	3.254	-16.843	8.873	1.00	0.00
ATOM	1125	HA	PHE	69	4.316	-16.603	8.934	1.00	0.00
ATOM	1126	CB	PHE	69	2.852	-17.611	10.138	1.00	0.00
ATOM	1127	HB2	PHE	69	2.849	-16.977	11.025	1.00	0.00
ATOM	1128	HB3	PHE	69	1.851	-18.012	9.976	1.00	0.00
ATOM	1129	CG	PHE	69	3.742	-18.787	10.452	1.00	0.00
ATOM	1130	CD1	PHE	69	5.111	-18.734	10.203	1.00	0.00
ATOM	1131	HD1	PHE	69	5.528	-17.849	9.724	1.00	0.00
ATOM	1132	CE1	PHE	69	5.942	-19.789	10.557	1.00	0.00
ATOM	1133	HE1	PHE	69	7.013	-19.734	10.360	1.00	0.00
ATOM	1134	CZ	PHE	69	5.411	-20.904	11.158	1.00	0.00
ATOM	1135	HZ	PHE	69	6.063	-21.731	11.440	1.00	0.00
ATOM	1136	CE2	PHE	69	4.049	-20.980	11.407	1.00	0.00
ATOM	1137	HE2	PHE	69	3.632	-21.869	11.880	1.00	0.00
ATOM	1138	CD2	PHE	69	3.220	-19.929	11.056	1.00	0.00
ATOM	1139	HD2	PHE	69	2.149	-19.991	11.252	1.00	0.00
ATOM	1140	C	PHE	69	2.954	-17.656	7.636	1.00	0.00
ATOM	1141	O	PHE	69	1.794	-17.794	7.260	1.00	0.00
ATOM	1142	N	GLY	70	4.006	-18.099	6.961	1.00	0.00
ATOM	1143	H	GLY	70	4.942	-17.898	7.284	1.00	0.00
ATOM	1144	CA	GLY	70	3.851	-18.876	5.754	1.00	0.00
ATOM	1145	HA2	GLY	70	4.313	-19.856	5.876	1.00	0.00
ATOM	1146	HA3	GLY	70	2.794	-19.000	5.520	1.00	0.00
ATOM	1147	C	GLY	70	4.525	-18.154	4.614	1.00	0.00
ATOM	1148	O	GLY	70	5.085	-18.775	3.725	1.00	0.00
ATOM	1149	N	TRP	71	4.485	-16.829	4.636	1.00	0.00
ATOM	1150	H	TRP	71	4.000	-16.349	5.381	1.00	0.00
ATOM	1151	CA	TRP	71	5.105	-16.026	3.580	1.00	0.00
ATOM	1152	HA	TRP	71	4.831	-16.419	2.601	1.00	0.00
ATOM	1153	CB	TRP	71	4.624	-14.573	3.677	1.00	0.00
ATOM	1154	HB2	TRP	71	3.549	-14.563	3.500	1.00	0.00
ATOM	1155	HB3	TRP	71	4.834	-14.153	4.661	1.00	0.00
ATOM	1156	CG	TRP	71	5.228	-13.647	2.681	1.00	0.00
ATOM	1157	CD1	TRP	71	5.916	-12.503	2.955	1.00	0.00
ATOM	1158	HD1	TRP	71	6.063	-12.246	4.004	1.00	0.00
ATOM	1159	NE1	TRP	71	6.293	-11.894	1.775	1.00	0.00
ATOM	1160	HE1	TRP	71	6.813	-11.031	1.708	1.00	0.00
ATOM	1161	CE2	TRP	71	5.844	-12.639	0.713	1.00	0.00
ATOM	1162	CZ2	TRP	71	5.970	-12.421	-0.667	1.00	0.00
ATOM	1163	HZ2	TRP	71	6.509	-11.534	-0.998	1.00	0.00
ATOM	1164	CH2	TRP	71	5.406	-13.340	-1.518	1.00	0.00
ATOM	1165	HH2	TRP	71	5.483	-13.203	-2.596	1.00	0.00
ATOM	1166	CZ3	TRP	71	4.731	-14.455	-1.026	1.00	0.00
ATOM	1167	HZ3	TRP	71	4.286	-15.183	-1.704	1.00	0.00
ATOM	1168	CE3	TRP	71	4.603	-14.677	0.355	1.00	0.00
ATOM	1169	HE3	TRP	71	4.056	-15.560	0.687	1.00	0.00
ATOM	1170	CD2	TRP	71	5.169	-13.754	1.241	1.00	0.00
ATOM	1171	C	TRP	71	6.616	-16.130	3.762	1.00	0.00
ATOM	1172	O	TRP	71	7.177	-15.653	4.757	1.00	0.00
ATOM	1173	N	CYS	72	7.262	-16.783	2.805	1.00	0.00
ATOM	1174	H	CYS	72	6.745	-17.200	2.044	1.00	0.00

ATOM	1175	CA	CYS	72	8.690	-17.009	2.870	1.00	0.00
ATOM	1176	HA	CYS	72	9.027	-16.986	3.906	1.00	0.00
ATOM	1177	CB	CYS	72	9.023	-18.375	2.280	1.00	0.00
ATOM	1178	HB2	CYS	72	8.782	-18.407	1.218	1.00	0.00
ATOM	1179	HB3	CYS	72	10.078	-18.611	2.420	1.00	0.00
ATOM	1180	SG	CYS	72	8.117	-19.706	3.031	1.00	0.00
ATOM	1181	HG	CYS	72	8.652	-20.673	2.291	1.00	0.00
ATOM	1182	C	CYS	72	9.562	-15.955	2.224	1.00	0.00
ATOM	1183	O	CYS	72	10.526	-16.290	1.534	1.00	0.00
ATOM	1184	N	TYR	73	9.227	-14.687	2.415	1.00	0.00
ATOM	1185	H	TYR	73	8.378	-14.448	2.907	1.00	0.00
ATOM	1186	CA	TYR	73	10.049	-13.607	1.892	1.00	0.00
ATOM	1187	HA	TYR	73	11.025	-14.011	1.622	1.00	0.00
ATOM	1188	CB	TYR	73	9.439	-12.946	0.665	1.00	0.00
ATOM	1189	HB2	TYR	73	8.365	-12.901	0.844	1.00	0.00
ATOM	1190	HB3	TYR	73	9.838	-11.934	0.594	1.00	0.00
ATOM	1191	CG	TYR	73	9.702	-13.679	-0.620	1.00	0.00
ATOM	1192	CD1	TYR	73	10.856	-13.450	-1.348	1.00	0.00
ATOM	1193	HD1	TYR	73	11.587	-12.736	-0.968	1.00	0.00
ATOM	1194	CE1	TYR	73	11.091	-14.117	-2.551	1.00	0.00
ATOM	1195	HE1	TYR	73	12.008	-13.941	-3.114	1.00	0.00
ATOM	1196	CZ	TYR	73	10.151	-15.012	-3.024	1.00	0.00
ATOM	1197	OH	TYR	73	10.355	-15.675	-4.218	1.00	0.00
ATOM	1198	HH	TYR	73	11.185	-15.441	-4.640	1.00	0.00
ATOM	1199	CE2	TYR	73	9.001	-15.248	-2.315	1.00	0.00
ATOM	1200	HE2	TYR	73	8.259	-15.954	-2.688	1.00	0.00
ATOM	1201	CD2	TYR	73	8.786	-14.586	-1.121	1.00	0.00
ATOM	1202	HD2	TYR	73	7.877	-14.774	-0.550	1.00	0.00
ATOM	1203	C	TYR	73	10.240	-12.580	2.979	1.00	0.00
ATOM	1204	O	TYR	73	9.395	-12.404	3.864	1.00	0.00
ATOM	1205	N	LYS	74	11.416	-11.980	2.971	1.00	0.00
ATOM	1206	H	LYS	74	12.099	-12.233	2.271	1.00	0.00
ATOM	1207	CA	LYS	74	11.758	-10.943	3.919	1.00	0.00
ATOM	1208	HA	LYS	74	10.855	-10.563	4.397	1.00	0.00
ATOM	1209	CB	LYS	74	12.677	-11.497	4.992	1.00	0.00
ATOM	1210	HB2	LYS	74	12.990	-10.665	5.623	1.00	0.00
ATOM	1211	HB3	LYS	74	12.103	-12.208	5.587	1.00	0.00
ATOM	1212	CG	LYS	74	13.898	-12.186	4.425	1.00	0.00
ATOM	1213	HG2	LYS	74	13.572	-12.975	3.747	1.00	0.00
ATOM	1214	HG3	LYS	74	14.489	-11.455	3.874	1.00	0.00
ATOM	1215	CD	LYS	74	14.735	-12.782	5.521	1.00	0.00
ATOM	1216	HD2	LYS	74	15.130	-11.985	6.151	1.00	0.00
ATOM	1217	HD3	LYS	74	14.121	-13.451	6.125	1.00	0.00
ATOM	1218	CE	LYS	74	15.878	-13.558	4.916	1.00	0.00
ATOM	1219	HE2	LYS	74	15.472	-14.372	4.316	1.00	0.00
ATOM	1220	HE3	LYS	74	16.458	-12.891	4.279	1.00	0.00
ATOM	1221	NZ	LYS	74	16.750	-14.112	5.970	1.00	0.00
ATOM	1222	HZ1	LYS	74	16.213	-14.731	6.561	1.00	0.00
ATOM	1223	HZ2	LYS	74	17.507	-14.627	5.544	1.00	0.00
ATOM	1224	HZ3	LYS	74	17.127	-13.358	6.527	1.00	0.00
ATOM	1225	C	LYS	74	12.480	-9.889	3.103	1.00	0.00
ATOM	1226	O	LYS	74	12.886	-10.127	1.944	1.00	0.00
ATOM	1227	N	LEU	75	12.580	-8.700	3.673	1.00	0.00
ATOM	1228	H	LEU	75	12.141	-8.513	4.564	1.00	0.00
ATOM	1229	CA	LEU	75	13.260	-7.610	2.999	1.00	0.00
ATOM	1230	HA	LEU	75	13.424	-7.863	1.952	1.00	0.00
ATOM	1231	CB	LEU	75	12.411	-6.342	3.068	1.00	0.00
ATOM	1232	HB2	LEU	75	12.301	-6.114	4.128	1.00	0.00
ATOM	1233	HB3	LEU	75	12.907	-5.511	2.567	1.00	0.00
ATOM	1234	CG	LEU	75	11.025	-6.561	2.446	1.00	0.00
ATOM	1235	HG	LEU	75	10.487	-7.313	3.024	1.00	0.00
ATOM	1236	CD1	LEU	75	10.242	-5.265	2.452	1.00	0.00
ATOM	1237	HD11	LEU	75	10.779	-4.513	1.874	1.00	0.00
ATOM	1238	HD12	LEU	75	9.260	-5.431	2.009	1.00	0.00
ATOM	1239	HD13	LEU	75	10.123	-4.917	3.478	1.00	0.00
ATOM	1240	CD2	LEU	75	11.165	-7.115	1.047	1.00	0.00
ATOM	1241	HD21	LEU	75	11.695	-8.067	1.084	1.00	0.00
ATOM	1242	HD22	LEU	75	10.176	-7.267	0.615	1.00	0.00
ATOM	1243	HD23	LEU	75	11.726	-6.412	0.432	1.00	0.00
ATOM	1244	C	LEU	75	14.623	-7.453	3.658	1.00	0.00
ATOM	1245	O	LEU	75	14.738	-7.266	4.873	1.00	0.00
ATOM	1246	N	VAL	76	15.653	-7.612	2.840	1.00	0.00
ATOM	1247	H	VAL	76	15.467	-7.792	1.864	1.00	0.00
ATOM	1248	CA	VAL	76	17.044	-7.554	3.280	1.00	0.00
ATOM	1249	HA	VAL	76	17.142	-7.430	4.359	1.00	0.00
ATOM	1250	CB	VAL	76	17.764	-8.860	2.866	1.00	0.00
ATOM	1251	HB	VAL	76	17.642	-9.004	1.793	1.00	0.00

ATOM	1252	CG1	VAL	76	19.222	-8.792	3.198	1.00	0.00
ATOM	1253	HG11	VAL	76	19.344	-8.649	4.272	1.00	0.00
ATOM	1254	HG12	VAL	76	19.707	-9.721	2.898	1.00	0.00
ATOM	1255	HG13	VAL	76	19.678	-7.957	2.667	1.00	0.00
ATOM	1256	CG2	VAL	76	17.113	-10.050	3.542	1.00	0.00
ATOM	1257	HG21	VAL	76	16.066	-10.110	3.245	1.00	0.00
ATOM	1258	HG22	VAL	76	17.627	-10.964	3.244	1.00	0.00
ATOM	1259	HG23	VAL	76	17.177	-9.934	4.624	1.00	0.00
ATOM	1260	C	VAL	76	17.799	-6.367	2.675	1.00	0.00
ATOM	1261	O	VAL	76	17.828	-6.199	1.440	1.00	0.00
ATOM	1262	N	PRO	77	18.380	-5.511	3.540	1.00	0.00
ATOM	1263	CD	PRO	77	18.084	-5.536	4.981	1.00	0.00
ATOM	1264	HD2	PRO	77	18.586	-6.383	5.449	1.00	0.00
ATOM	1265	HD3	PRO	77	17.009	-5.619	5.138	1.00	0.00
ATOM	1266	CG	PRO	77	18.638	-4.196	5.450	1.00	0.00
ATOM	1267	HG2	PRO	77	18.966	-4.260	6.488	1.00	0.00
ATOM	1268	HG3	PRO	77	17.882	-3.417	5.356	1.00	0.00
ATOM	1269	CB	PRO	77	19.769	-3.943	4.544	1.00	0.00
ATOM	1270	HB2	PRO	77	20.645	-4.564	4.734	1.00	0.00
ATOM	1271	HB3	PRO	77	20.062	-2.893	4.541	1.00	0.00
ATOM	1272	CA	PRO	77	19.157	-4.312	3.213	1.00	0.00
ATOM	1273	HA	PRO	77	18.437	-3.559	2.895	1.00	0.00
ATOM	1274	C	PRO	77	20.219	-4.485	2.135	1.00	0.00
ATOM	1275	O	PRO	77	21.042	-5.409	2.182	1.00	0.00
ATOM	1276	N	VAL	78	20.220	-3.516	1.223	1.00	0.00
ATOM	1277	H	VAL	78	19.487	-2.826	1.305	1.00	0.00
ATOM	1278	CA	VAL	78	21.108	-3.443	0.081	1.00	0.00
ATOM	1279	HA	VAL	78	20.951	-2.506	-0.453	1.00	0.00
ATOM	1280	CB	VAL	78	22.586	-3.525	0.507	1.00	0.00
ATOM	1281	HB	VAL	78	22.708	-4.365	1.191	1.00	0.00
ATOM	1282	CG1	VAL	78	23.488	-3.719	-0.698	1.00	0.00
ATOM	1283	HG11	VAL	78	23.367	-2.879	-1.382	1.00	0.00
ATOM	1284	HG12	VAL	78	24.526	-3.774	-0.370	1.00	0.00
ATOM	1285	HG13	VAL	78	23.219	-4.644	-1.208	1.00	0.00
ATOM	1286	CG2	VAL	78	22.971	-2.240	1.231	1.00	0.00
ATOM	1287	HG21	VAL	78	22.343	-2.117	2.113	1.00	0.00
ATOM	1288	HG22	VAL	78	24.016	-2.293	1.535	1.00	0.00
ATOM	1289	HG23	VAL	78	22.830	-1.390	0.564	1.00	0.00
ATOM	1290	C	VAL	78	20.745	-4.503	-0.934	1.00	0.00
ATOM	1291	O	VAL	78	19.848	-4.282	-1.747	1.00	0.00
ATOM	1292	OXT	VAL	78	21.376	-5.556	-0.989	1.00	0.00
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ATOM	1293	N	ARG	79	16.567	6.198	2.625	1.00	0.00
ATOM	1294	H1	ARG	79	16.707	5.646	1.791	1.00	0.00
ATOM	1295	H2	ARG	79	17.197	6.987	2.602	1.00	0.00
ATOM	1296	H3	ARG	79	15.576	6.346	2.754	1.00	0.00
ATOM	1297	CA	ARG	79	16.990	5.400	3.773	1.00	0.00
ATOM	1298	HA	ARG	79	17.793	5.909	4.307	1.00	0.00
ATOM	1299	CB	ARG	79	15.811	5.198	4.737	1.00	0.00
ATOM	1300	HB2	ARG	79	15.457	6.167	5.087	1.00	0.00
ATOM	1301	HB3	ARG	79	15.002	4.681	4.220	1.00	0.00
ATOM	1302	CG	ARG	79	16.267	4.363	5.929	1.00	0.00
ATOM	1303	HG2	ARG	79	16.621	3.393	5.580	1.00	0.00
ATOM	1304	HG3	ARG	79	17.075	4.879	6.447	1.00	0.00
ATOM	1305	CD	ARG	79	15.096	4.163	6.886	1.00	0.00
ATOM	1306	HD2	ARG	79	14.742	5.132	7.236	1.00	0.00
ATOM	1307	HD3	ARG	79	14.287	3.646	6.369	1.00	0.00
ATOM	1308	NE	ARG	79	15.502	3.355	8.058	1.00	0.00
ATOM	1309	HE	ARG	79	16.457	3.031	8.114	1.00	0.00
ATOM	1310	CZ	ARG	79	14.666	3.037	9.043	1.00	0.00
ATOM	1311	NH1	ARG	79	13.394	3.426	9.041	1.00	0.00
ATOM	1312	HH11	ARG	79	13.040	3.980	8.275	1.00	0.00
ATOM	1313	HH12	ARG	79	12.788	3.165	9.806	1.00	0.00
ATOM	1314	NH2	ARG	79	15.137	2.306	10.049	1.00	0.00
ATOM	1315	HH21	ARG	79	16.103	2.011	10.046	1.00	0.00
ATOM	1316	HH22	ARG	79	14.527	2.048	10.812	1.00	0.00
ATOM	1317	C	ARG	79	17.543	4.052	3.300	1.00	0.00
ATOM	1318	O	ARG	79	18.136	3.958	2.216	1.00	0.00
ATOM	1319	N	GLU	80	17.324	3.018	4.109	1.00	0.00
ATOM	1320	H	GLU	80	16.816	3.186	4.966	1.00	0.00
ATOM	1321	CA	GLU	80	17.783	1.660	3.832	1.00	0.00
ATOM	1322	HA	GLU	80	18.862	1.640	3.678	1.00	0.00
ATOM	1323	CB	GLU	80	17.445	0.777	5.036	1.00	0.00
ATOM	1324	HB2	GLU	80	17.285	1.460	5.870	1.00	0.00
ATOM	1325	HB3	GLU	80	16.506	0.282	4.787	1.00	0.00
ATOM	1326	CG	GLU	80	18.481	-0.268	5.429	1.00	0.00
ATOM	1327	HG2	GLU	80	18.536	-1.002	4.625	1.00	0.00

ATOM	1328	HG3	GLU	80	19.448	0.223	5.539	1.00	0.00
ATOM	1329	CD	GLU	80	18.115	-0.972	6.738	1.00	0.00
ATOM	1330	OE1	GLU	80	16.910	-1.032	7.070	1.00	0.00
ATOM	1331	OE2	GLU	80	19.026	-1.458	7.444	1.00	0.00
ATOM	1332	C	GLU	80	17.105	1.105	2.581	1.00	0.00
ATOM	1333	O	GLU	80	15.874	1.126	2.480	1.00	0.00
ATOM	1334	N	VAL	81	17.922	0.668	1.620	1.00	0.00
ATOM	1335	H	VAL	81	18.917	0.722	1.786	1.00	0.00
ATOM	1336	CA	VAL	81	17.457	0.073	0.362	1.00	0.00
ATOM	1337	HA	VAL	81	16.527	0.529	0.023	1.00	0.00
ATOM	1338	CB	VAL	81	18.511	0.221	-0.748	1.00	0.00
ATOM	1339	HB	VAL	81	19.438	-0.252	-0.423	1.00	0.00
ATOM	1340	CG1	VAL	81	18.029	-0.438	-2.028	1.00	0.00
ATOM	1341	HG11	VAL	81	17.102	0.034	-2.354	1.00	0.00
ATOM	1342	HG12	VAL	81	18.787	-0.324	-2.803	1.00	0.00
ATOM	1343	HG13	VAL	81	17.852	-1.498	-1.847	1.00	0.00
ATOM	1344	CG2	VAL	81	18.822	1.694	-0.981	1.00	0.00
ATOM	1345	HG21	VAL	81	19.207	2.134	-0.061	1.00	0.00
ATOM	1346	HG22	VAL	81	19.569	1.788	-1.769	1.00	0.00
ATOM	1347	HG23	VAL	81	17.912	2.215	-1.280	1.00	0.00
ATOM	1348	C	VAL	81	17.259	-1.411	0.644	1.00	0.00
ATOM	1349	O	VAL	81	18.153	-2.058	1.167	1.00	0.00
ATOM	1350	N	LEU	82	16.108	-1.962	0.277	1.00	0.00
ATOM	1351	H	LEU	82	15.398	-1.414	-0.187	1.00	0.00
ATOM	1352	CA	LEU	82	15.822	-3.363	0.563	1.00	0.00
ATOM	1353	HA	LEU	82	16.676	-3.839	1.045	1.00	0.00
ATOM	1354	CB	LEU	82	14.630	-3.439	1.503	1.00	0.00
ATOM	1355	HB2	LEU	82	13.778	-3.051	0.944	1.00	0.00
ATOM	1356	HB3	LEU	82	14.456	-4.487	1.749	1.00	0.00
ATOM	1357	CG	LEU	82	14.801	-2.642	2.781	1.00	0.00
ATOM	1358	HG	LEU	82	15.260	-1.678	2.563	1.00	0.00
ATOM	1359	CD1	LEU	82	13.466	-2.428	3.376	1.00	0.00
ATOM	1360	HD11	LEU	82	13.007	-3.392	3.596	1.00	0.00
ATOM	1361	HD12	LEU	82	13.566	-1.856	4.298	1.00	0.00
ATOM	1362	HD13	LEU	82	12.839	-1.879	2.674	1.00	0.00
ATOM	1363	CD2	LEU	82	15.695	-3.363	3.744	1.00	0.00
ATOM	1364	HD21	LEU	82	16.675	-3.512	3.290	1.00	0.00
ATOM	1365	HD22	LEU	82	15.803	-2.772	4.654	1.00	0.00
ATOM	1366	HD23	LEU	82	15.259	-4.331	3.991	1.00	0.00
ATOM	1367	C	LEU	82	15.523	-4.200	-0.662	1.00	0.00
ATOM	1368	O	LEU	82	15.218	-3.669	-1.731	1.00	0.00
ATOM	1369	N	GLU	83	15.607	-5.518	-0.488	1.00	0.00
ATOM	1370	H	GLU	83	15.825	-5.872	0.433	1.00	0.00
ATOM	1371	CA	GLU	83	15.307	-6.482	-1.549	1.00	0.00
ATOM	1372	HA	GLU	83	14.812	-5.963	-2.370	1.00	0.00
ATOM	1373	CB	GLU	83	16.562	-7.153	-2.085	1.00	0.00
ATOM	1374	HB2	GLU	83	17.024	-7.623	-1.216	1.00	0.00
ATOM	1375	HB3	GLU	83	16.201	-7.925	-2.765	1.00	0.00
ATOM	1376	CG	GLU	83	17.557	-6.314	-2.777	1.00	0.00
ATOM	1377	HG2	GLU	83	17.203	-5.988	-3.755	1.00	0.00
ATOM	1378	HG3	GLU	83	17.747	-5.443	-2.150	1.00	0.00
ATOM	1379	CD	GLU	83	18.821	-7.095	-2.940	1.00	0.00
ATOM	1380	OE1	GLU	83	19.330	-7.559	-1.899	1.00	0.00
ATOM	1381	OE2	GLU	83	19.282	-7.292	-4.084	1.00	0.00
ATOM	1382	C	GLU	83	14.479	-7.613	-0.975	1.00	0.00
ATOM	1383	O	GLU	83	14.511	-7.881	0.232	1.00	0.00
ATOM	1384	N	TRP	84	13.799	-8.308	-1.873	1.00	0.00
ATOM	1385	H	TRP	84	13.861	-8.041	-2.845	1.00	0.00
ATOM	1386	CA	TRP	84	12.994	-9.466	-1.528	1.00	0.00
ATOM	1387	HA	TRP	84	12.497	-9.304	-0.572	1.00	0.00
ATOM	1388	CB	TRP	84	11.930	-9.701	-2.598	1.00	0.00
ATOM	1389	HB2	TRP	84	12.368	-9.250	-3.488	1.00	0.00
ATOM	1390	HB3	TRP	84	11.696	-10.747	-2.798	1.00	0.00
ATOM	1391	CG	TRP	84	10.638	-9.014	-2.367	1.00	0.00
ATOM	1392	CD1	TRP	84	9.698	-9.334	-1.429	1.00	0.00
ATOM	1393	HD1	TRP	84	9.969	-10.096	-0.698	1.00	0.00
ATOM	1394	NE1	TRP	84	8.567	-8.589	-1.625	1.00	0.00
ATOM	1395	HE1	TRP	84	7.724	-8.649	-1.072	1.00	0.00
ATOM	1396	CE2	TRP	84	8.762	-7.750	-2.692	1.00	0.00
ATOM	1397	CZ2	TRP	84	7.907	-6.810	-3.268	1.00	0.00
ATOM	1398	HZ2	TRP	84	6.915	-6.681	-2.835	1.00	0.00
ATOM	1399	CH2	TRP	84	8.370	-6.104	-4.347	1.00	0.00
ATOM	1400	HH2	TRP	84	7.726	-5.365	-4.823	1.00	0.00
ATOM	1401	CZ3	TRP	84	9.653	-6.309	-4.854	1.00	0.00
ATOM	1402	HZ3	TRP	84	10.016	-5.742	-5.711	1.00	0.00
ATOM	1403	CE3	TRP	84	10.510	-7.245	-4.279	1.00	0.00
ATOM	1404	HE3	TRP	84	11.499	-7.377	-4.718	1.00	0.00

ATOM	1405	CD2	TRP	84	10.060	-7.984	-3.178	1.00	0.00
ATOM	1406	C	TRP	84	13.934	-10.684	-1.489	1.00	0.00
ATOM	1407	O	TRP	84	14.555	-11.037	-2.510	1.00	0.00
ATOM	1408	N	ARG	85	14.033	-11.319	-0.322	1.00	0.00
ATOM	1409	H	ARG	85	13.510	-10.975	0.471	1.00	0.00
ATOM	1410	CA	ARG	85	14.878	-12.495	-0.136	1.00	0.00
ATOM	1411	HA	ARG	85	15.351	-12.771	-1.078	1.00	0.00
ATOM	1412	CB	ARG	85	15.965	-12.190	0.883	1.00	0.00
ATOM	1413	HB2	ARG	85	15.508	-11.617	1.690	1.00	0.00
ATOM	1414	HB3	ARG	85	16.326	-13.142	1.274	1.00	0.00
ATOM	1415	CG	ARG	85	17.110	-11.420	0.312	1.00	0.00
ATOM	1416	HG2	ARG	85	16.731	-10.601	-0.298	1.00	0.00
ATOM	1417	HG3	ARG	85	17.720	-11.018	1.121	1.00	0.00
ATOM	1418	CD	ARG	85	17.948	-12.335	-0.541	1.00	0.00
ATOM	1419	HD2	ARG	85	18.813	-12.662	0.037	1.00	0.00
ATOM	1420	HD3	ARG	85	17.350	-13.203	-0.820	1.00	0.00
ATOM	1421	NE	ARG	85	18.419	-11.681	-1.758	1.00	0.00
ATOM	1422	HE	ARG	85	18.085	-12.054	-2.635	1.00	0.00
ATOM	1423	CZ	ARG	85	19.224	-10.621	-1.783	1.00	0.00
ATOM	1424	NH1	ARG	85	19.656	-10.073	-0.645	1.00	0.00
ATOM	1425	HH11	ARG	85	19.370	-10.465	0.241	1.00	0.00
ATOM	1426	HH12	ARG	85	20.266	-9.269	-0.675	1.00	0.00
ATOM	1427	NH2	ARG	85	19.624	-10.128	-2.956	1.00	0.00
ATOM	1428	HH21	ARG	85	19.314	-10.561	-3.814	1.00	0.00
ATOM	1429	HH22	ARG	85	20.235	-9.324	-2.980	1.00	0.00
ATOM	1430	C	ARG	85	14.055	-13.667	0.353	1.00	0.00
ATOM	1431	O	ARG	85	13.412	-13.592	1.393	1.00	0.00
ATOM	1432	N	PHE	86	14.058	-14.748	-0.404	1.00	0.00
ATOM	1433	H	PHE	86	14.597	-14.774	-1.258	1.00	0.00
ATOM	1434	CA	PHE	86	13.315	-15.936	-0.022	1.00	0.00
ATOM	1435	HA	PHE	86	12.300	-15.667	0.269	1.00	0.00
ATOM	1436	CB	PHE	86	13.245	-16.901	-1.199	1.00	0.00
ATOM	1437	HB2	PHE	86	12.828	-16.403	-2.074	1.00	0.00
ATOM	1438	HB3	PHE	86	14.243	-17.271	-1.433	1.00	0.00
ATOM	1439	CG	PHE	86	12.389	-18.108	-0.943	1.00	0.00
ATOM	1440	CD1	PHE	86	12.919	-19.243	-0.352	1.00	0.00
ATOM	1441	HD1	PHE	86	13.973	-19.261	-0.075	1.00	0.00
ATOM	1442	CE1	PHE	86	12.121	-20.349	-0.112	1.00	0.00
ATOM	1443	HE1	PHE	86	12.547	-21.237	0.355	1.00	0.00
ATOM	1444	CZ	PHE	86	10.784	-20.327	-0.464	1.00	0.00
ATOM	1445	HZ	PHE	86	10.154	-21.197	-0.276	1.00	0.00
ATOM	1446	CE2	PHE	86	10.251	-19.208	-1.050	1.00	0.00
ATOM	1447	HE2	PHE	86	9.197	-19.190	-1.328	1.00	0.00
ATOM	1448	CD2	PHE	86	11.047	-18.106	-1.288	1.00	0.00
ATOM	1449	HD2	PHE	86	10.622	-17.217	-1.753	1.00	0.00
ATOM	1450	C	PHE	86	14.033	-16.620	1.116	1.00	0.00
ATOM	1451	O	PHE	86	15.198	-16.946	0.986	1.00	0.00
ATOM	1452	N	ASP	87	13.371	-16.793	2.246	1.00	0.00
ATOM	1453	H	ASP	87	12.450	-16.400	2.380	1.00	0.00
ATOM	1454	CA	ASP	87	13.991	-17.490	3.359	1.00	0.00
ATOM	1455	HA	ASP	87	14.894	-17.982	2.999	1.00	0.00
ATOM	1456	CB	ASP	87	14.367	-16.564	4.511	1.00	0.00
ATOM	1457	HB2	ASP	87	15.054	-15.818	4.113	1.00	0.00
ATOM	1458	HB3	ASP	87	13.464	-16.071	4.870	1.00	0.00
ATOM	1459	CG	ASP	87	15.041	-17.311	5.678	1.00	0.00
ATOM	1460	OD1	ASP	87	15.422	-18.488	5.509	1.00	0.00
ATOM	1461	OD2	ASP	87	15.179	-16.727	6.784	1.00	0.00
ATOM	1462	C	ASP	87	13.057	-18.586	3.833	1.00	0.00
ATOM	1463	O	ASP	87	12.212	-18.394	4.707	1.00	0.00
ATOM	1464	N	SER	88	13.207	-19.726	3.180	1.00	0.00
ATOM	1465	H	SER	88	13.869	-19.696	2.418	1.00	0.00
ATOM	1466	CA	SER	88	12.493	-20.970	3.424	1.00	0.00
ATOM	1467	HA	SER	88	11.547	-21.021	2.885	1.00	0.00
ATOM	1468	CB	SER	88	13.418	-22.065	2.893	1.00	0.00
ATOM	1469	HB2	SER	88	13.605	-21.857	1.840	1.00	0.00
ATOM	1470	HB3	SER	88	14.355	-22.004	3.447	1.00	0.00
ATOM	1471	OG	SER	88	12.881	-23.350	3.026	1.00	0.00
ATOM	1472	HG	SER	88	13.502	-23.994	2.678	1.00	0.00
ATOM	1473	C	SER	88	12.097	-21.273	4.882	1.00	0.00
ATOM	1474	O	SER	88	11.035	-21.825	5.143	1.00	0.00
ATOM	1475	N	ARG	89	12.931	-20.910	5.849	1.00	0.00
ATOM	1476	H	ARG	89	13.844	-20.527	5.650	1.00	0.00
ATOM	1477	CA	ARG	89	12.602	-21.227	7.231	1.00	0.00
ATOM	1478	HA	ARG	89	12.098	-22.192	7.276	1.00	0.00
ATOM	1479	CB	ARG	89	13.856	-21.296	8.079	1.00	0.00
ATOM	1480	HB2	ARG	89	13.572	-21.745	9.031	1.00	0.00
ATOM	1481	HB3	ARG	89	14.554	-21.955	7.562	1.00	0.00

ATOM	1482	CG	ARG	89	14.501	-19.991	8.324	1.00	0.00
ATOM	1483	HG2	ARG	89	14.659	-19.474	7.378	1.00	0.00
ATOM	1484	HG3	ARG	89	13.868	-19.382	8.969	1.00	0.00
ATOM	1485	CD	ARG	89	15.833	-20.223	9.000	1.00	0.00
ATOM	1486	HD2	ARG	89	16.245	-19.278	9.354	1.00	0.00
ATOM	1487	HD3	ARG	89	15.713	-20.904	9.843	1.00	0.00
ATOM	1488	NE	ARG	89	16.765	-20.812	8.054	1.00	0.00
ATOM	1489	HE	ARG	89	16.644	-21.789	7.827	1.00	0.00
ATOM	1490	CZ	ARG	89	17.783	-20.157	7.510	1.00	0.00
ATOM	1491	NH1	ARG	89	18.013	-18.877	7.831	1.00	0.00
ATOM	1492	HH11	ARG	89	17.408	-18.409	8.491	1.00	0.00
ATOM	1493	HH12	ARG	89	18.790	-18.387	7.412	1.00	0.00
ATOM	1494	NH2	ARG	89	18.543	-20.780	6.606	1.00	0.00
ATOM	1495	HH21	ARG	89	18.336	-21.735	6.349	1.00	0.00
ATOM	1496	HH22	ARG	89	19.321	-20.294	6.184	1.00	0.00
ATOM	1497	C	ARG	89	11.548	-20.344	7.875	1.00	0.00
ATOM	1498	O	ARG	89	11.106	-20.583	9.012	1.00	0.00
ATOM	1499	N	LEU	90	11.118	-19.335	7.138	1.00	0.00
ATOM	1500	H	LEU	90	11.544	-19.121	6.248	1.00	0.00
ATOM	1501	CA	LEU	90	10.086	-18.453	7.634	1.00	0.00
ATOM	1502	HA	LEU	90	10.313	-18.151	8.657	1.00	0.00
ATOM	1503	CB	LEU	90	10.002	-17.195	6.758	1.00	0.00
ATOM	1504	HB2	LEU	90	10.025	-17.562	5.732	1.00	0.00
ATOM	1505	HB3	LEU	90	9.068	-16.660	6.932	1.00	0.00
ATOM	1506	CG	LEU	90	11.192	-16.240	6.990	1.00	0.00
ATOM	1507	HG	LEU	90	12.114	-16.822	6.960	1.00	0.00
ATOM	1508	CD1	LEU	90	11.244	-15.167	5.946	1.00	0.00
ATOM	1509	HD11	LEU	90	10.323	-14.585	5.977	1.00	0.00
ATOM	1510	HD12	LEU	90	12.094	-14.512	6.140	1.00	0.00
ATOM	1511	HD13	LEU	90	11.353	-15.622	4.962	1.00	0.00
ATOM	1512	CD2	LEU	90	11.122	-15.637	8.388	1.00	0.00
ATOM	1513	HD21	LEU	90	11.156	-16.435	9.131	1.00	0.00
ATOM	1514	HD22	LEU	90	11.968	-14.966	8.538	1.00	0.00
ATOM	1515	HD23	LEU	90	10.192	-15.079	8.498	1.00	0.00
ATOM	1516	C	LEU	90	8.761	-19.231	7.698	1.00	0.00
ATOM	1517	O	LEU	90	7.828	-18.828	8.387	1.00	0.00
ATOM	1518	N	ALA	91	8.700	-20.386	7.042	1.00	0.00
ATOM	1519	H	ALA	91	9.476	-20.708	6.482	1.00	0.00
ATOM	1520	CA	ALA	91	7.483	-21.202	7.077	1.00	0.00
ATOM	1521	HA	ALA	91	6.604	-20.560	7.126	1.00	0.00
ATOM	1522	CB	ALA	91	7.389	-22.052	5.841	1.00	0.00
ATOM	1523	HB1	ALA	91	8.258	-22.707	5.783	1.00	0.00
ATOM	1524	HB2	ALA	91	6.482	-22.656	5.883	1.00	0.00
ATOM	1525	HB3	ALA	91	7.358	-21.411	4.960	1.00	0.00
ATOM	1526	C	ALA	91	7.479	-22.077	8.331	1.00	0.00
ATOM	1527	O	ALA	91	6.460	-22.657	8.709	1.00	0.00
ATOM	1528	N	PHE	92	8.607	-22.109	9.027	1.00	0.00
ATOM	1529	H	PHE	92	9.416	-21.587	8.723	1.00	0.00
ATOM	1530	CA	PHE	92	8.724	-22.925	10.222	1.00	0.00
ATOM	1531	HA	PHE	92	7.808	-23.490	10.395	1.00	0.00
ATOM	1532	CB	PHE	92	9.881	-23.915	10.028	1.00	0.00
ATOM	1533	HB2	PHE	92	10.855	-23.433	9.954	1.00	0.00
ATOM	1534	HB3	PHE	92	9.875	-24.590	10.884	1.00	0.00
ATOM	1535	CG	PHE	92	9.731	-24.776	8.799	1.00	0.00
ATOM	1536	CD1	PHE	92	8.819	-25.825	8.780	1.00	0.00
ATOM	1537	HD1	PHE	92	8.268	-26.060	9.691	1.00	0.00
ATOM	1538	CE1	PHE	92	8.606	-26.563	7.636	1.00	0.00
ATOM	1539	HE1	PHE	92	7.884	-27.380	7.636	1.00	0.00
ATOM	1540	CZ	PHE	92	9.314	-26.264	6.482	1.00	0.00
ATOM	1541	HZ	PHE	92	9.150	-26.841	5.572	1.00	0.00
ATOM	1542	CE2	PHE	92	10.229	-25.232	6.489	1.00	0.00
ATOM	1543	HE2	PHE	92	10.791	-24.997	5.586	1.00	0.00
ATOM	1544	CD2	PHE	92	10.435	-24.490	7.651	1.00	0.00
ATOM	1545	HD2	PHE	92	11.159	-23.675	7.656	1.00	0.00
ATOM	1546	C	PHE	92	8.958	-22.079	11.454	1.00	0.00
ATOM	1547	O	PHE	92	8.879	-22.574	12.576	1.00	0.00
ATOM	1548	N	HIE	93	9.279	-20.805	11.236	1.00	0.00
ATOM	1549	H	HIE	93	9.341	-20.474	10.284	1.00	0.00
ATOM	1550	CA	HIE	93	9.552	-19.862	12.317	1.00	0.00
ATOM	1551	HA	HIE	93	9.194	-20.265	13.265	1.00	0.00
ATOM	1552	CB	HIE	93	11.052	-19.618	12.428	1.00	0.00
ATOM	1553	HB2	HIE	93	11.451	-19.527	11.418	1.00	0.00
ATOM	1554	HB3	HIE	93	11.292	-18.719	12.995	1.00	0.00
ATOM	1555	CG	HIE	93	11.786	-20.737	13.076	1.00	0.00
ATOM	1556	ND1	HIE	93	11.888	-20.855	14.446	1.00	0.00
ATOM	1557	CE1	HIE	93	12.540	-21.965	14.741	1.00	0.00
ATOM	1558	HE1	HIE	93	12.725	-22.246	15.778	1.00	0.00

ATOM	1559	NE2	HIE	93	12.865	-22.564	13.611	1.00	0.00
ATOM	1560	HE2	HIE	93	13.370	-23.435	13.529	1.00	0.00
ATOM	1561	CD2	HIE	93	12.408	-21.817	12.555	1.00	0.00
ATOM	1562	HD2	HIE	93	12.585	-22.153	11.533	1.00	0.00
ATOM	1563	C	HIE	93	8.894	-18.514	12.135	1.00	0.00
ATOM	1564	O	HIE	93	9.319	-17.720	11.287	1.00	0.00
ATOM	1565	N	HIE	94	7.915	-18.209	12.977	1.00	0.00
ATOM	1566	H	HIE	94	7.582	-18.855	13.679	1.00	0.00
ATOM	1567	CA	HIE	94	7.267	-16.910	12.871	1.00	0.00
ATOM	1568	HA	HIE	94	7.119	-16.659	11.821	1.00	0.00
ATOM	1569	CB	HIE	94	5.913	-16.923	13.563	1.00	0.00
ATOM	1570	HB2	HIE	94	5.418	-17.891	13.481	1.00	0.00
ATOM	1571	HB3	HIE	94	6.062	-16.680	14.615	1.00	0.00
ATOM	1572	CG	HIE	94	4.961	-15.909	13.020	1.00	0.00
ATOM	1573	ND1	HIE	94	3.734	-15.657	13.593	1.00	0.00
ATOM	1574	CE1	HIE	94	3.096	-14.749	12.877	1.00	0.00
ATOM	1575	HE1	HIE	94	2.100	-14.413	13.165	1.00	0.00
ATOM	1576	NE2	HIE	94	3.867	-14.402	11.865	1.00	0.00
ATOM	1577	HE2	HIE	94	3.639	-13.724	11.152	1.00	0.00
ATOM	1578	CD2	HIE	94	5.039	-15.112	11.930	1.00	0.00
ATOM	1579	HD2	HIE	94	5.810	-14.963	11.174	1.00	0.00
ATOM	1580	C	HIE	94	8.167	-15.834	13.497	1.00	0.00
ATOM	1581	O	HIE	94	7.860	-15.300	14.560	1.00	0.00
ATOM	1582	N	VAL	95	9.253	-15.487	12.820	1.00	0.00
ATOM	1583	H	VAL	95	9.486	-15.934	11.945	1.00	0.00
ATOM	1584	CA	VAL	95	10.176	-14.496	13.356	1.00	0.00
ATOM	1585	HA	VAL	95	10.619	-14.827	14.296	1.00	0.00
ATOM	1586	CB	VAL	95	11.291	-14.209	12.370	1.00	0.00
ATOM	1587	HB	VAL	95	10.870	-13.742	11.480	1.00	0.00
ATOM	1588	CG1	VAL	95	12.301	-13.289	12.986	1.00	0.00
ATOM	1589	HG11	VAL	95	12.723	-13.756	13.876	1.00	0.00
ATOM	1590	HG12	VAL	95	13.097	-13.090	12.269	1.00	0.00
ATOM	1591	HG13	VAL	95	11.819	-12.352	13.262	1.00	0.00
ATOM	1592	CG2	VAL	95	11.931	-15.521	11.941	1.00	0.00
ATOM	1593	HG21	VAL	95	11.180	-16.155	11.469	1.00	0.00
ATOM	1594	HG22	VAL	95	12.734	-15.320	11.232	1.00	0.00
ATOM	1595	HG23	VAL	95	12.338	-16.030	12.815	1.00	0.00
ATOM	1596	C	VAL	95	9.492	-13.197	13.732	1.00	0.00
ATOM	1597	O	VAL	95	9.634	-12.735	14.855	1.00	0.00
ATOM	1598	N	ALA	96	8.709	-12.642	12.809	1.00	0.00
ATOM	1599	H	ALA	96	8.639	-13.081	11.902	1.00	0.00
ATOM	1600	CA	ALA	96	7.994	-11.379	13.028	1.00	0.00
ATOM	1601	HA	ALA	96	8.746	-10.590	13.048	1.00	0.00
ATOM	1602	CB	ALA	96	7.035	-11.103	11.896	1.00	0.00
ATOM	1603	HB1	ALA	96	6.271	-11.880	11.869	1.00	0.00
ATOM	1604	HB2	ALA	96	6.561	-10.134	12.049	1.00	0.00
ATOM	1605	HB3	ALA	96	7.579	-11.096	10.952	1.00	0.00
ATOM	1606	C	ALA	96	7.249	-11.341	14.333	1.00	0.00
ATOM	1607	O	ALA	96	7.264	-10.327	15.016	1.00	0.00
ATOM	1608	N	ARG	97	6.622	-12.449	14.694	1.00	0.00
ATOM	1609	H	ARG	97	6.652	-13.266	14.101	1.00	0.00
ATOM	1610	CA	ARG	97	5.865	-12.525	15.936	1.00	0.00
ATOM	1611	HA	ARG	97	5.253	-11.632	16.061	1.00	0.00
ATOM	1612	CB	ARG	97	4.951	-13.739	15.901	1.00	0.00
ATOM	1613	HB2	ARG	97	4.488	-13.739	14.915	1.00	0.00
ATOM	1614	HB3	ARG	97	5.602	-14.609	15.996	1.00	0.00
ATOM	1615	CG	ARG	97	3.883	-13.796	16.955	1.00	0.00
ATOM	1616	HG2	ARG	97	4.324	-13.763	17.952	1.00	0.00
ATOM	1617	HG3	ARG	97	3.184	-12.968	16.840	1.00	0.00
ATOM	1618	CD	ARG	97	3.154	-15.093	16.775	1.00	0.00
ATOM	1619	HD2	ARG	97	2.992	-15.246	15.708	1.00	0.00
ATOM	1620	HD3	ARG	97	3.784	-15.893	17.164	1.00	0.00
ATOM	1621	NE	ARG	97	1.869	-15.141	17.453	1.00	0.00
ATOM	1622	HE	ARG	97	1.325	-14.291	17.493	1.00	0.00
ATOM	1623	CZ	ARG	97	1.409	-16.221	18.088	1.00	0.00
ATOM	1624	NH1	ARG	97	2.145	-17.334	18.143	1.00	0.00
ATOM	1625	HH11	ARG	97	3.053	-17.358	17.702	1.00	0.00
ATOM	1626	HH12	ARG	97	1.790	-18.147	18.626	1.00	0.00
ATOM	1627	NH2	ARG	97	0.179	-16.222	18.602	1.00	0.00
ATOM	1628	HH21	ARG	97	-0.404	-15.403	18.510	1.00	0.00
ATOM	1629	HH22	ARG	97	-0.164	-17.042	19.082	1.00	0.00
ATOM	1630	C	ARG	97	6.803	-12.634	17.125	1.00	0.00
ATOM	1631	O	ARG	97	6.476	-12.198	18.231	1.00	0.00
ATOM	1632	N	GLU	98	7.965	-13.235	16.907	1.00	0.00
ATOM	1633	H	GLU	98	8.200	-13.590	15.991	1.00	0.00
ATOM	1634	CA	GLU	98	8.936	-13.394	17.979	1.00	0.00
ATOM	1635	HA	GLU	98	8.465	-13.874	18.837	1.00	0.00

ATOM	1636	CB	GLU	98	10.103	-14.259	17.517	1.00	0.00
ATOM	1637	HB2	GLU	98	10.498	-13.793	16.615	1.00	0.00
ATOM	1638	HB3	GLU	98	10.854	-14.217	18.306	1.00	0.00
ATOM	1639	CG	GLU	98	9.755	-15.709	17.227	1.00	0.00
ATOM	1640	HG2	GLU	98	9.348	-16.151	18.137	1.00	0.00
ATOM	1641	HG3	GLU	98	8.994	-15.721	16.447	1.00	0.00
ATOM	1642	CD	GLU	98	10.962	-16.512	16.770	1.00	0.00
ATOM	1643	OE1	GLU	98	12.106	-16.015	16.915	1.00	0.00
ATOM	1644	OE2	GLU	98	10.778	-17.645	16.268	1.00	0.00
ATOM	1645	C	GLU	98	9.455	-12.027	18.368	1.00	0.00
ATOM	1646	O	GLU	98	9.340	-11.613	19.512	1.00	0.00
ATOM	1647	N	LEU	99	9.960	-11.317	17.368	1.00	0.00
ATOM	1648	H	LEU	99	9.959	-11.738	16.450	1.00	0.00
ATOM	1649	CA	LEU	99	10.541	-9.995	17.518	1.00	0.00
ATOM	1650	HA	LEU	99	11.147	-9.945	18.423	1.00	0.00
ATOM	1651	CB	LEU	99	11.429	-9.705	16.323	1.00	0.00
ATOM	1652	HB2	LEU	99	10.720	-9.573	15.506	1.00	0.00
ATOM	1653	HB3	LEU	99	11.952	-8.766	16.505	1.00	0.00
ATOM	1654	CG	LEU	99	12.435	-10.781	15.951	1.00	0.00
ATOM	1655	HG	LEU	99	11.928	-11.743	15.878	1.00	0.00
ATOM	1656	CD1	LEU	99	13.073	-10.441	14.610	1.00	0.00
ATOM	1657	HD11	LEU	99	13.581	-9.480	14.682	1.00	0.00
ATOM	1658	HD12	LEU	99	13.795	-11.214	14.344	1.00	0.00
ATOM	1659	HD13	LEU	99	12.301	-10.387	13.843	1.00	0.00
ATOM	1660	CD2	LEU	99	13.465	-10.915	17.048	1.00	0.00
ATOM	1661	HD21	LEU	99	12.971	-11.190	17.980	1.00	0.00
ATOM	1662	HD22	LEU	99	14.185	-11.688	16.779	1.00	0.00
ATOM	1663	HD23	LEU	99	13.983	-9.965	17.179	1.00	0.00
ATOM	1664	C	LEU	99	9.585	-8.825	17.650	1.00	0.00
ATOM	1665	O	LEU	99	9.994	-7.770	18.114	1.00	0.00
ATOM	1666	N	HIE	100	8.356	-8.964	17.161	1.00	0.00
ATOM	1667	H	HIE	100	8.076	-9.839	16.740	1.00	0.00
ATOM	1668	CA	HIE	100	7.380	-7.870	17.206	1.00	0.00
ATOM	1669	HA	HIE	100	7.673	-7.153	17.973	1.00	0.00
ATOM	1670	CB	HIE	100	7.304	-7.146	15.864	1.00	0.00
ATOM	1671	HB2	HIE	100	7.127	-7.871	15.069	1.00	0.00
ATOM	1672	HB3	HIE	100	6.499	-6.411	15.872	1.00	0.00
ATOM	1673	CG	HIE	100	8.549	-6.411	15.501	1.00	0.00
ATOM	1674	ND1	HIE	100	9.523	-6.699	14.609	1.00	0.00
ATOM	1675	CE1	HIE	100	10.435	-5.677	14.660	1.00	0.00
ATOM	1676	HE1	HIE	100	11.313	-5.697	14.015	1.00	0.00
ATOM	1677	NE2	HIE	100	10.039	-4.792	15.557	1.00	0.00
ATOM	1678	HE2	HIE	100	10.513	-3.938	15.811	1.00	0.00
ATOM	1679	CD2	HIE	100	8.900	-5.211	16.080	1.00	0.00
ATOM	1680	HD2	HIE	100	8.401	-4.618	16.846	1.00	0.00
ATOM	1681	C	HIE	100	5.992	-8.337	17.535	1.00	0.00
ATOM	1682	O	HIE	100	5.060	-8.131	16.756	1.00	0.00
ATOM	1683	N	PRO	101	5.809	-8.906	18.724	1.00	0.00
ATOM	1684	CD	PRO	101	6.773	-9.128	19.808	1.00	0.00
ATOM	1685	HD2	PRO	101	7.496	-8.314	19.850	1.00	0.00
ATOM	1686	HD3	PRO	101	7.298	-10.073	19.666	1.00	0.00
ATOM	1687	CG	PRO	101	5.876	-9.153	20.986	1.00	0.00
ATOM	1688	HG2	PRO	101	5.579	-8.145	21.275	1.00	0.00
ATOM	1689	HG3	PRO	101	6.354	-9.647	21.832	1.00	0.00
ATOM	1690	CB	PRO	101	4.718	-9.940	20.500	1.00	0.00
ATOM	1691	HB2	PRO	101	3.843	-9.757	21.124	1.00	0.00
ATOM	1692	HB3	PRO	101	4.906	-11.012	20.446	1.00	0.00
ATOM	1693	CA	PRO	101	4.484	-9.383	19.104	1.00	0.00
ATOM	1694	HA	PRO	101	4.193	-10.153	18.390	1.00	0.00
ATOM	1695	C	PRO	101	3.432	-8.281	19.119	1.00	0.00
ATOM	1696	O	PRO	101	2.232	-8.573	19.099	1.00	0.00
ATOM	1697	N	GLU	102	3.864	-7.018	19.148	1.00	0.00
ATOM	1698	H	GLU	102	4.842	-6.802	19.275	1.00	0.00
ATOM	1699	CA	GLU	102	2.904	-5.922	19.179	1.00	0.00
ATOM	1700	HA	GLU	102	2.229	-6.063	20.023	1.00	0.00
ATOM	1701	CB	GLU	102	3.595	-4.560	19.326	1.00	0.00
ATOM	1702	HB2	GLU	102	2.846	-3.882	19.736	1.00	0.00
ATOM	1703	HB3	GLU	102	4.393	-4.702	20.055	1.00	0.00
ATOM	1704	CG	GLU	102	4.166	-3.973	18.066	1.00	0.00
ATOM	1705	HG2	GLU	102	3.533	-4.291	17.238	1.00	0.00
ATOM	1706	HG3	GLU	102	4.128	-2.888	18.156	1.00	0.00
ATOM	1707	CD	GLU	102	5.580	-4.404	17.809	1.00	0.00
ATOM	1708	OE1	GLU	102	6.177	-5.033	18.700	1.00	0.00
ATOM	1709	OE2	GLU	102	6.105	-4.112	16.711	1.00	0.00
ATOM	1710	C	GLU	102	1.910	-5.953	17.996	1.00	0.00
ATOM	1711	O	GLU	102	0.752	-5.543	18.141	1.00	0.00
ATOM	1712	N	TYR	103	2.322	-6.506	16.860	1.00	0.00

ATOM	1713	H	TYR	103	3.265	-6.851	16.751	1.00	0.00
ATOM	1714	CA	TYR	103	1.424	-6.589	15.724	1.00	0.00
ATOM	1715	HA	TYR	103	0.806	-5.693	15.671	1.00	0.00
ATOM	1716	CB	TYR	103	2.219	-6.705	14.441	1.00	0.00
ATOM	1717	HB2	TYR	103	2.788	-7.632	14.515	1.00	0.00
ATOM	1718	HB3	TYR	103	1.526	-6.771	13.603	1.00	0.00
ATOM	1719	CG	TYR	103	3.158	-5.559	14.223	1.00	0.00
ATOM	1720	CD1	TYR	103	2.695	-4.259	14.233	1.00	0.00
ATOM	1721	HD1	TYR	103	1.638	-4.080	14.430	1.00	0.00
ATOM	1722	CE1	TYR	103	3.551	-3.186	13.998	1.00	0.00
ATOM	1723	HE1	TYR	103	3.163	-2.168	14.011	1.00	0.00
ATOM	1724	CZ	TYR	103	4.884	-3.411	13.748	1.00	0.00
ATOM	1725	OH	TYR	103	5.703	-2.335	13.518	1.00	0.00
ATOM	1726	HH	TYR	103	5.239	-1.496	13.557	1.00	0.00
ATOM	1727	CE2	TYR	103	5.377	-4.701	13.734	1.00	0.00
ATOM	1728	HE2	TYR	103	6.433	-4.889	13.538	1.00	0.00
ATOM	1729	CD2	TYR	103	4.510	-5.770	13.974	1.00	0.00
ATOM	1730	HD2	TYR	103	4.890	-6.792	13.968	1.00	0.00
ATOM	1731	C	TYR	103	0.481	-7.787	15.868	1.00	0.00
ATOM	1732	O	TYR	103	-0.320	-8.067	14.985	1.00	0.00
ATOM	1733	N	PHE	104	0.596	-8.511	16.974	1.00	0.00
ATOM	1734	H	PHE	104	1.279	-8.248	17.670	1.00	0.00
ATOM	1735	CA	PHE	104	-0.255	-9.675	17.240	1.00	0.00
ATOM	1736	HA	PHE	104	-1.087	-9.689	16.537	1.00	0.00
ATOM	1737	CB	PHE	104	0.543	-10.983	17.084	1.00	0.00
ATOM	1738	HB2	PHE	104	1.183	-11.095	17.960	1.00	0.00
ATOM	1739	HB3	PHE	104	-0.112	-11.850	17.001	1.00	0.00
ATOM	1740	CG	PHE	104	1.437	-11.010	15.898	1.00	0.00
ATOM	1741	CD1	PHE	104	2.691	-10.445	15.956	1.00	0.00
ATOM	1742	HD1	PHE	104	3.036	-10.017	16.898	1.00	0.00
ATOM	1743	CE1	PHE	104	3.516	-10.415	14.834	1.00	0.00
ATOM	1744	HE1	PHE	104	4.505	-9.961	14.898	1.00	0.00
ATOM	1745	CZ	PHE	104	3.087	-10.953	13.656	1.00	0.00
ATOM	1746	HZ	PHE	104	3.722	-10.934	12.770	1.00	0.00
ATOM	1747	CE2	PHE	104	1.824	-11.530	13.594	1.00	0.00
ATOM	1748	HE2	PHE	104	1.475	-11.965	12.658	1.00	0.00
ATOM	1749	CD2	PHE	104	1.011	-11.554	14.713	1.00	0.00
ATOM	1750	HD2	PHE	104	0.022	-12.008	14.658	1.00	0.00
ATOM	1751	C	PHE	104	-0.754	-9.574	18.690	1.00	0.00
ATOM	1752	O	PHE	104	-1.851	-9.074	18.967	1.00	0.00
ATOM	1753	OXT	PHE	104	-0.051	-9.964	19.620	1.00	0.00
TER									
ATOM	1754	N	ARG	105	-15.893	-4.909	-18.714	1.00	0.00
ATOM	1755	H1	ARG	105	-15.157	-5.521	-18.393	1.00	0.00
ATOM	1756	H2	ARG	105	-15.944	-4.964	-19.721	1.00	0.00
ATOM	1757	H3	ARG	105	-16.719	-5.075	-18.156	1.00	0.00
ATOM	1758	CA	ARG	105	-15.499	-3.532	-18.421	1.00	0.00
ATOM	1759	HA	ARG	105	-15.453	-2.943	-19.337	1.00	0.00
ATOM	1760	CB	ARG	105	-16.540	-2.907	-17.490	1.00	0.00
ATOM	1761	HB2	ARG	105	-17.515	-3.227	-17.856	1.00	0.00
ATOM	1762	HB3	ARG	105	-16.366	-3.332	-16.501	1.00	0.00
ATOM	1763	CG	ARG	105	-16.505	-1.408	-17.404	1.00	0.00
ATOM	1764	HG2	ARG	105	-15.515	-1.095	-17.072	1.00	0.00
ATOM	1765	HG3	ARG	105	-16.705	-0.992	-18.391	1.00	0.00
ATOM	1766	CD	ARG	105	-17.547	-0.908	-16.425	1.00	0.00
ATOM	1767	HD2	ARG	105	-18.462	-0.659	-16.962	1.00	0.00
ATOM	1768	HD3	ARG	105	-17.758	-1.684	-15.689	1.00	0.00
ATOM	1769	NE	ARG	105	-17.076	0.283	-15.726	1.00	0.00
ATOM	1770	HE	ARG	105	-16.209	0.690	-16.046	1.00	0.00
ATOM	1771	CZ	ARG	105	-17.704	0.852	-14.700	1.00	0.00
ATOM	1772	NH1	ARG	105	-18.841	0.336	-14.242	1.00	0.00
ATOM	1773	HH11	ARG	105	-19.228	-0.491	-14.675	1.00	0.00
ATOM	1774	HH12	ARG	105	-19.313	0.773	-13.463	1.00	0.00
ATOM	1775	NH2	ARG	105	-17.201	1.948	-14.135	1.00	0.00
ATOM	1776	HH21	ARG	105	-16.342	2.345	-14.487	1.00	0.00
ATOM	1777	HH22	ARG	105	-17.681	2.376	-13.356	1.00	0.00
ATOM	1778	C	ARG	105	-14.098	-3.577	-17.777	1.00	0.00
ATOM	1779	O	ARG	105	-13.933	-4.013	-16.632	1.00	0.00
ATOM	1780	N	PRO	106	-13.067	-3.157	-18.522	1.00	0.00
ATOM	1781	CD	PRO	106	-13.170	-2.580	-19.864	1.00	0.00
ATOM	1782	HD2	PRO	106	-13.322	-1.502	-19.807	1.00	0.00
ATOM	1783	HD3	PRO	106	-13.994	-3.034	-20.414	1.00	0.00
ATOM	1784	CG	PRO	106	-11.847	-2.940	-20.429	1.00	0.00
ATOM	1785	HG2	PRO	106	-11.613	-2.335	-21.304	1.00	0.00
ATOM	1786	HG3	PRO	106	-11.806	-3.996	-20.696	1.00	0.00
ATOM	1787	CB	PRO	106	-10.928	-2.643	-19.304	1.00	0.00
ATOM	1788	HB2	PRO	106	-10.723	-1.577	-19.202	1.00	0.00

ATOM	1789	HB3	PRO	106	-9.988	-3.184	-19.416	1.00	0.00
ATOM	1790	CA	PRO	106	-11.675	-3.147	-18.073	1.00	0.00
ATOM	1791	HA	PRO	106	-11.426	-4.181	-17.833	1.00	0.00
ATOM	1792	C	PRO	106	-11.366	-2.260	-16.874	1.00	0.00
ATOM	1793	O	PRO	106	-12.051	-1.271	-16.634	1.00	0.00
ATOM	1794	N	GLN	107	-10.318	-2.622	-16.130	1.00	0.00
ATOM	1795	H	GLN	107	-9.784	-3.438	-16.394	1.00	0.00
ATOM	1796	CA	GLN	107	-9.867	-1.841	-14.978	1.00	0.00
ATOM	1797	HA	GLN	107	-10.690	-1.723	-14.273	1.00	0.00
ATOM	1798	CB	GLN	107	-8.704	-2.538	-14.262	1.00	0.00
ATOM	1799	HB2	GLN	107	-8.854	-3.611	-14.386	1.00	0.00
ATOM	1800	HB3	GLN	107	-7.791	-2.237	-14.776	1.00	0.00
ATOM	1801	CG	GLN	107	-8.582	-2.210	-12.773	1.00	0.00
ATOM	1802	HG2	GLN	107	-9.546	-2.413	-12.307	1.00	0.00
ATOM	1803	HG3	GLN	107	-7.822	-2.854	-12.329	1.00	0.00
ATOM	1804	CD	GLN	107	-8.212	-0.775	-12.508	1.00	0.00
ATOM	1805	OE1	GLN	107	-9.143	-0.013	-11.977	1.00	0.00
ATOM	1806	NE2	GLN	107	-7.104	-0.355	-12.792	1.00	0.00
ATOM	1807	HE21	GLN	107	-6.871	0.610	-12.608	1.00	0.00
ATOM	1808	HE22	GLN	107	-6.424	-0.975	-13.210	1.00	0.00
ATOM	1809	C	GLN	107	-9.369	-0.559	-15.621	1.00	0.00
ATOM	1810	O	GLN	107	-8.621	-0.587	-16.604	1.00	0.00
ATOM	1811	N	VAL	108	-9.813	0.563	-15.090	1.00	0.00
ATOM	1812	H	VAL	108	-10.511	0.532	-14.360	1.00	0.00
ATOM	1813	CA	VAL	108	-9.453	1.856	-15.644	1.00	0.00
ATOM	1814	HA	VAL	108	-9.537	1.924	-16.728	1.00	0.00
ATOM	1815	CB	VAL	108	-10.362	2.940	-15.007	1.00	0.00
ATOM	1816	HB	VAL	108	-11.003	2.455	-14.270	1.00	0.00
ATOM	1817	CG1	VAL	108	-9.568	4.024	-14.343	1.00	0.00
ATOM	1818	HG11	VAL	108	-8.927	4.509	-15.079	1.00	0.00
ATOM	1819	HG12	VAL	108	-10.247	4.760	-13.911	1.00	0.00
ATOM	1820	HG13	VAL	108	-8.952	3.592	-13.554	1.00	0.00
ATOM	1821	CG2	VAL	108	-11.289	3.481	-16.057	1.00	0.00
ATOM	1822	HG21	VAL	108	-11.904	2.672	-16.451	1.00	0.00
ATOM	1823	HG22	VAL	108	-11.931	4.244	-15.617	1.00	0.00
ATOM	1824	HG23	VAL	108	-10.705	3.920	-16.866	1.00	0.00
ATOM	1825	C	VAL	108	-7.956	2.156	-15.546	1.00	0.00
ATOM	1826	O	VAL	108	-7.281	1.677	-14.641	1.00	0.00
ATOM	1827	N	PRO	109	-7.399	2.869	-16.534	1.00	0.00
ATOM	1828	CD	PRO	109	-7.988	3.355	-17.790	1.00	0.00
ATOM	1829	HD2	PRO	109	-8.535	4.280	-17.610	1.00	0.00
ATOM	1830	HD3	PRO	109	-8.667	2.605	-18.196	1.00	0.00
ATOM	1831	CG	PRO	109	-6.772	3.560	-18.658	1.00	0.00
ATOM	1832	HG2	PRO	109	-6.972	4.288	-19.444	1.00	0.00
ATOM	1833	HG3	PRO	109	-6.451	2.620	-19.107	1.00	0.00
ATOM	1834	CB	PRO	109	-5.756	4.063	-17.697	1.00	0.00
ATOM	1835	HB2	PRO	109	-5.993	5.098	-17.452	1.00	0.00
ATOM	1836	HB3	PRO	109	-4.719	3.996	-18.026	1.00	0.00
ATOM	1837	CA	PRO	109	-5.972	3.177	-16.472	1.00	0.00
ATOM	1838	HA	PRO	109	-5.408	2.245	-16.522	1.00	0.00
ATOM	1839	C	PRO	109	-5.632	3.907	-15.179	1.00	0.00
ATOM	1840	O	PRO	109	-6.395	4.744	-14.686	1.00	0.00
ATOM	1841	N	LEU	110	-4.498	3.534	-14.611	1.00	0.00
ATOM	1842	H	LEU	110	-3.959	2.806	-15.057	1.00	0.00
ATOM	1843	CA	LEU	110	-4.002	4.093	-13.367	1.00	0.00
ATOM	1844	HA	LEU	110	-4.762	4.061	-12.586	1.00	0.00
ATOM	1845	CB	LEU	110	-2.805	3.234	-12.923	1.00	0.00
ATOM	1846	HB2	LEU	110	-3.342	2.311	-12.700	1.00	0.00
ATOM	1847	HB3	LEU	110	-2.290	3.133	-13.878	1.00	0.00
ATOM	1848	CG	LEU	110	-1.780	3.507	-11.818	1.00	0.00
ATOM	1849	HG	LEU	110	-2.268	3.887	-10.920	1.00	0.00
ATOM	1850	CD1	LEU	110	-1.112	2.181	-11.507	1.00	0.00
ATOM	1851	HD11	LEU	110	-0.623	1.800	-12.404	1.00	0.00
ATOM	1852	HD12	LEU	110	-0.369	2.323	-10.721	1.00	0.00
ATOM	1853	HD13	LEU	110	-1.863	1.465	-11.171	1.00	0.00
ATOM	1854	CD2	LEU	110	-0.728	4.542	-12.237	1.00	0.00
ATOM	1855	HD21	LEU	110	-1.220	5.484	-12.478	1.00	0.00
ATOM	1856	HD22	LEU	110	-0.026	4.699	-11.418	1.00	0.00
ATOM	1857	HD23	LEU	110	-0.189	4.179	-13.112	1.00	0.00
ATOM	1858	C	LEU	110	-3.598	5.545	-13.573	1.00	0.00
ATOM	1859	O	LEU	110	-3.154	5.917	-14.656	1.00	0.00
ATOM	1860	N	ARG	111	-3.788	6.368	-12.552	1.00	0.00
ATOM	1861	H	ARG	111	-4.224	6.033	-11.705	1.00	0.00
ATOM	1862	CA	ARG	111	-3.410	7.772	-12.625	1.00	0.00
ATOM	1863	HA	ARG	111	-2.473	7.860	-13.174	1.00	0.00
ATOM	1864	CB	ARG	111	-4.471	8.612	-13.331	1.00	0.00
ATOM	1865	HB2	ARG	111	-4.160	9.655	-13.270	1.00	0.00

ATOM	1866	HB3	ARG	111	-4.496	8.301	-14.375	1.00	0.00
ATOM	1867	CG	ARG	111	-5.833	8.463	-12.734	1.00	0.00
ATOM	1868	HG2	ARG	111	-6.109	7.408	-12.753	1.00	0.00
ATOM	1869	HG3	ARG	111	-5.801	8.810	-11.701	1.00	0.00
ATOM	1870	CD	ARG	111	-6.844	9.256	-13.495	1.00	0.00
ATOM	1871	HD2	ARG	111	-6.672	10.321	-13.339	1.00	0.00
ATOM	1872	HD3	ARG	111	-6.768	9.028	-14.558	1.00	0.00
ATOM	1873	NE	ARG	111	-8.193	8.929	-13.042	1.00	0.00
ATOM	1874	HE	ARG	111	-8.291	8.155	-12.400	1.00	0.00
ATOM	1875	CZ	ARG	111	-9.279	9.606	-13.387	1.00	0.00
ATOM	1876	NH1	ARG	111	-9.168	10.654	-14.186	1.00	0.00
ATOM	1877	HH11	ARG	111	-8.259	10.931	-14.527	1.00	0.00
ATOM	1878	HH12	ARG	111	-9.993	11.172	-14.451	1.00	0.00
ATOM	1879	NH2	ARG	111	-10.472	9.210	-12.970	1.00	0.00
ATOM	1880	HH21	ARG	111	-10.553	8.389	-12.387	1.00	0.00
ATOM	1881	HH22	ARG	111	-11.295	9.730	-13.236	1.00	0.00
ATOM	1882	C	ARG	111	-3.200	8.276	-11.212	1.00	0.00
ATOM	1883	O	ARG	111	-3.660	7.655	-10.247	1.00	0.00
ATOM	1884	N	PRO	112	-2.426	9.360	-11.063	1.00	0.00
ATOM	1885	CD	PRO	112	-1.610	9.998	-12.115	1.00	0.00
ATOM	1886	HD2	PRO	112	-2.200	10.107	-13.024	1.00	0.00
ATOM	1887	HD3	PRO	112	-0.732	9.386	-12.323	1.00	0.00
ATOM	1888	CG	PRO	112	-1.256	11.309	-11.502	1.00	0.00
ATOM	1889	HG2	PRO	112	-2.071	12.027	-11.592	1.00	0.00
ATOM	1890	HG3	PRO	112	-0.352	11.727	-11.945	1.00	0.00
ATOM	1891	CB	PRO	112	-1.019	10.919	-10.054	1.00	0.00
ATOM	1892	HB2	PRO	112	-1.098	11.789	-9.402	1.00	0.00
ATOM	1893	HB3	PRO	112	-0.055	10.434	-9.897	1.00	0.00
ATOM	1894	CA	PRO	112	-2.148	9.941	-9.751	1.00	0.00
ATOM	1895	HA	PRO	112	-1.844	9.124	-9.096	1.00	0.00
ATOM	1896	C	PRO	112	-3.329	10.674	-9.132	1.00	0.00
ATOM	1897	O	PRO	112	-4.106	11.335	-9.832	1.00	0.00
ATOM	1898	N	MET	113	-3.460	10.546	-7.817	1.00	0.00
ATOM	1899	H	MET	113	-2.797	9.988	-7.298	1.00	0.00
ATOM	1900	CA	MET	113	-4.503	11.238	-7.080	1.00	0.00
ATOM	1901	HA	MET	113	-5.485	10.940	-7.446	1.00	0.00
ATOM	1902	CB	MET	113	-4.406	10.880	-5.594	1.00	0.00
ATOM	1903	HB2	MET	113	-4.533	9.799	-5.532	1.00	0.00
ATOM	1904	HB3	MET	113	-3.396	11.145	-5.282	1.00	0.00
ATOM	1905	CG	MET	113	-5.414	11.562	-4.681	1.00	0.00
ATOM	1906	HG2	MET	113	-5.407	11.036	-3.726	1.00	0.00
ATOM	1907	HG3	MET	113	-5.084	12.590	-4.531	1.00	0.00
ATOM	1908	SD	MET	113	-7.078	11.568	-5.337	1.00	0.00
ATOM	1909	CE	MET	113	-7.825	10.095	-4.741	1.00	0.00
ATOM	1910	HE1	MET	113	-7.828	10.103	-3.651	1.00	0.00
ATOM	1911	HE2	MET	113	-8.850	10.033	-5.106	1.00	0.00
ATOM	1912	HE3	MET	113	-7.261	9.232	-5.095	1.00	0.00
ATOM	1913	C	MET	113	-4.181	12.716	-7.270	1.00	0.00
ATOM	1914	O	MET	113	-3.024	13.074	-7.520	1.00	0.00
ATOM	1915	N	THR	114	-5.198	13.570	-7.234	1.00	0.00
ATOM	1916	H	THR	114	-6.149	13.247	-7.128	1.00	0.00
ATOM	1917	CA	THR	114	-4.966	14.998	-7.365	1.00	0.00
ATOM	1918	HA	THR	114	-3.912	15.201	-7.174	1.00	0.00
ATOM	1919	CB	THR	114	-5.314	15.507	-8.746	1.00	0.00
ATOM	1920	HB	THR	114	-5.063	16.566	-8.807	1.00	0.00
ATOM	1921	CG2	THR	114	-4.548	14.748	-9.798	1.00	0.00
ATOM	1922	HG21	THR	114	-4.799	13.689	-9.738	1.00	0.00
ATOM	1923	HG22	THR	114	-4.811	15.128	-10.785	1.00	0.00
ATOM	1924	HG23	THR	114	-3.478	14.877	-9.633	1.00	0.00
ATOM	1925	OG1	THR	114	-6.710	15.327	-8.971	1.00	0.00
ATOM	1926	HG1	THR	114	-6.937	15.648	-9.846	1.00	0.00
ATOM	1927	C	THR	114	-5.801	15.756	-6.348	1.00	0.00
ATOM	1928	O	THR	114	-6.661	15.180	-5.660	1.00	0.00
ATOM	1929	N	TYR	115	-5.530	17.053	-6.251	1.00	0.00
ATOM	1930	H	TYR	115	-4.814	17.450	-6.842	1.00	0.00
ATOM	1931	CA	TYR	115	-6.247	17.935	-5.355	1.00	0.00
ATOM	1932	HA	TYR	115	-6.168	17.578	-4.328	1.00	0.00
ATOM	1933	CB	TYR	115	-5.645	19.337	-5.432	1.00	0.00
ATOM	1934	HB2	TYR	115	-4.612	19.389	-5.087	1.00	0.00
ATOM	1935	HB3	TYR	115	-5.683	19.557	-6.498	1.00	0.00
ATOM	1936	CG	TYR	115	-6.469	20.335	-4.688	1.00	0.00
ATOM	1937	CD1	TYR	115	-7.558	20.956	-5.293	1.00	0.00
ATOM	1938	HD1	TYR	115	-7.722	20.805	-6.360	1.00	0.00
ATOM	1939	CE1	TYR	115	-8.421	21.749	-4.569	1.00	0.00
ATOM	1940	HE1	TYR	115	-9.247	22.265	-5.057	1.00	0.00
ATOM	1941	CZ	TYR	115	-8.189	21.939	-3.233	1.00	0.00
ATOM	1942	OH	TYR	115	-9.077	22.664	-2.470	1.00	0.00

ATOM	1943	HH	TYR	115	-9.825	22.991	-2.974	1.00	0.00
ATOM	1944	CE2	TYR	115	-7.101	21.350	-2.621	1.00	0.00
ATOM	1945	HE2	TYR	115	-6.916	21.516	-1.559	1.00	0.00
ATOM	1946	CD2	TYR	115	-6.254	20.557	-3.347	1.00	0.00
ATOM	1947	HD2	TYR	115	-5.395	20.091	-2.863	1.00	0.00
ATOM	1948	C	TYR	115	-7.697	17.979	-5.842	1.00	0.00
ATOM	1949	O	TYR	115	-8.633	17.798	-5.082	1.00	0.00
ATOM	1950	N	LYS	116	-7.867	18.180	-7.138	1.00	0.00
ATOM	1951	H	LYS	116	-7.066	18.320	-7.737	1.00	0.00
ATOM	1952	CA	LYS	116	-9.186	18.273	-7.724	1.00	0.00
ATOM	1953	HA	LYS	116	-9.797	18.977	-7.159	1.00	0.00
ATOM	1954	CB	LYS	116	-9.082	18.763	-9.164	1.00	0.00
ATOM	1955	HB2	LYS	116	-8.590	19.735	-9.183	1.00	0.00
ATOM	1956	HB3	LYS	116	-8.501	18.050	-9.749	1.00	0.00
ATOM	1957	CG	LYS	116	-10.480	18.890	-9.760	1.00	0.00
ATOM	1958	HG2	LYS	116	-10.973	17.918	-9.742	1.00	0.00
ATOM	1959	HG3	LYS	116	-11.062	19.602	-9.175	1.00	0.00
ATOM	1960	CD	LYS	116	-10.376	19.380	-11.200	1.00	0.00
ATOM	1961	HD2	LYS	116	-9.884	20.352	-11.219	1.00	0.00
ATOM	1962	HD3	LYS	116	-9.795	18.667	-11.785	1.00	0.00
ATOM	1963	CE	LYS	116	-11.774	19.507	-11.796	1.00	0.00
ATOM	1964	HE2	LYS	116	-12.267	18.535	-11.778	1.00	0.00
ATOM	1965	HE3	LYS	116	-12.356	20.219	-11.211	1.00	0.00
ATOM	1966	NZ	LYS	116	-11.674	19.980	-13.185	1.00	0.00
ATOM	1967	HZ1	LYS	116	-11.136	19.320	-13.727	1.00	0.00
ATOM	1968	HZ2	LYS	116	-12.600	20.064	-13.579	1.00	0.00
ATOM	1969	HZ3	LYS	116	-11.218	20.881	-13.202	1.00	0.00
ATOM	1970	C	LYS	116	-9.906	16.950	-7.658	1.00	0.00
ATOM	1971	O	LYS	116	-11.111	16.919	-7.447	1.00	0.00
ATOM	1972	N	ALA	117	-9.177	15.851	-7.836	1.00	0.00
ATOM	1973	H	ALA	117	-8.189	15.928	-8.031	1.00	0.00
ATOM	1974	CA	ALA	117	-9.767	14.522	-7.777	1.00	0.00
ATOM	1975	HA	ALA	117	-10.664	14.458	-8.393	1.00	0.00
ATOM	1976	CB	ALA	117	-8.796	13.519	-8.252	1.00	0.00
ATOM	1977	HB1	ALA	117	-7.896	13.564	-7.638	1.00	0.00
ATOM	1978	HB2	ALA	117	-9.235	12.524	-8.178	1.00	0.00
ATOM	1979	HB3	ALA	117	-8.538	13.726	-9.290	1.00	0.00
ATOM	1980	C	ALA	117	-10.173	14.218	-6.345	1.00	0.00
ATOM	1981	O	ALA	117	-11.235	13.637	-6.097	1.00	0.00
ATOM	1982	N	ALA	118	-9.351	14.641	-5.390	1.00	0.00
ATOM	1983	H	ALA	118	-8.474	15.084	-5.622	1.00	0.00
ATOM	1984	CA	ALA	118	-9.658	14.409	-3.982	1.00	0.00
ATOM	1985	HA	ALA	118	-9.906	13.355	-3.852	1.00	0.00
ATOM	1986	CB	ALA	118	-8.445	14.736	-3.114	1.00	0.00
ATOM	1987	HB1	ALA	118	-8.190	15.790	-3.226	1.00	0.00
ATOM	1988	HB2	ALA	118	-8.678	14.529	-2.069	1.00	0.00
ATOM	1989	HB3	ALA	118	-7.599	14.123	-3.425	1.00	0.00
ATOM	1990	C	ALA	118	-10.888	15.226	-3.535	1.00	0.00
ATOM	1991	O	ALA	118	-11.701	14.755	-2.722	1.00	0.00
ATOM	1992	N	VAL	119	-11.015	16.454	-4.046	1.00	0.00
ATOM	1993	H	VAL	119	-10.281	16.841	-4.622	1.00	0.00
ATOM	1994	CA	VAL	119	-12.164	17.311	-3.710	1.00	0.00
ATOM	1995	HA	VAL	119	-12.323	17.310	-2.631	1.00	0.00
ATOM	1996	CB	VAL	119	-11.960	18.784	-4.183	1.00	0.00
ATOM	1997	HB	VAL	119	-11.529	18.778	-5.184	1.00	0.00
ATOM	1998	CG1	VAL	119	-13.281	19.521	-4.207	1.00	0.00
ATOM	1999	HG11	VAL	119	-13.712	19.527	-3.206	1.00	0.00
ATOM	2000	HG12	VAL	119	-13.120	20.546	-4.539	1.00	0.00
ATOM	2001	HG13	VAL	119	-13.964	19.020	-4.893	1.00	0.00
ATOM	2002	CG2	VAL	119	-11.000	19.493	-3.256	1.00	0.00
ATOM	2003	HG21	VAL	119	-10.040	18.977	-3.262	1.00	0.00
ATOM	2004	HG22	VAL	119	-10.862	20.521	-3.592	1.00	0.00
ATOM	2005	HG23	VAL	119	-11.405	19.493	-2.244	1.00	0.00
ATOM	2006	C	VAL	119	-13.478	16.738	-4.279	1.00	0.00
ATOM	2007	O	VAL	119	-14.490	16.706	-3.576	1.00	0.00
ATOM	2008	N	ASP	120	-13.458	16.266	-5.526	1.00	0.00
ATOM	2009	H	ASP	120	-12.627	16.343	-6.095	1.00	0.00
ATOM	2010	CA	ASP	120	-14.655	15.698	-6.126	1.00	0.00
ATOM	2011	HA	ASP	120	-15.493	16.378	-5.977	1.00	0.00
ATOM	2012	CB	ASP	120	-14.470	15.475	-7.613	1.00	0.00
ATOM	2013	HB2	ASP	120	-13.645	14.782	-7.778	1.00	0.00
ATOM	2014	HB3	ASP	120	-15.396	15.029	-7.975	1.00	0.00
ATOM	2015	CG	ASP	120	-14.203	16.771	-8.366	1.00	0.00
ATOM	2016	OD1	ASP	120	-14.139	17.826	-7.725	1.00	0.00
ATOM	2017	OD2	ASP	120	-14.016	16.759	-9.598	1.00	0.00
ATOM	2018	C	ASP	120	-15.032	14.407	-5.428	1.00	0.00
ATOM	2019	O	ASP	120	-16.163	14.249	-5.000	1.00	0.00

ATOM	2020	N	LEU	121	-14.062	13.522	-5.225	1.00	0.00
ATOM	2021	H	LEU	121	-13.132	13.704	-5.574	1.00	0.00
ATOM	2022	CA	LEU	121	-14.311	12.250	-4.545	1.00	0.00
ATOM	2023	HA	LEU	121	-15.036	11.670	-5.115	1.00	0.00
ATOM	2024	CB	LEU	121	-13.018	11.425	-4.411	1.00	0.00
ATOM	2025	HB2	LEU	121	-12.272	12.169	-4.130	1.00	0.00
ATOM	2026	HB3	LEU	121	-13.155	10.721	-3.590	1.00	0.00
ATOM	2027	CG	LEU	121	-12.543	10.671	-5.656	1.00	0.00
ATOM	2028	HG	LEU	121	-12.538	11.349	-6.509	1.00	0.00
ATOM	2029	CD1	LEU	121	-11.144	10.136	-5.428	1.00	0.00
ATOM	2030	HD11	LEU	121	-11.149	9.457	-4.575	1.00	0.00
ATOM	2031	HD12	LEU	121	-10.810	9.600	-6.316	1.00	0.00
ATOM	2032	HD13	LEU	121	-10.465	10.965	-5.228	1.00	0.00
ATOM	2033	CD2	LEU	121	-13.523	9.543	-5.997	1.00	0.00
ATOM	2034	HD21	LEU	121	-14.510	9.964	-6.190	1.00	0.00
ATOM	2035	HD22	LEU	121	-13.175	9.014	-6.884	1.00	0.00
ATOM	2036	HD23	LEU	121	-13.583	8.847	-5.160	1.00	0.00
ATOM	2037	C	LEU	121	-14.910	12.453	-3.175	1.00	0.00
ATOM	2038	O	LEU	121	-15.807	11.710	-2.789	1.00	0.00
ATOM	2039	N	SER	122	-14.412	13.443	-2.431	1.00	0.00
ATOM	2040	H	SER	122	-13.662	14.019	-2.785	1.00	0.00
ATOM	2041	CA	SER	122	-14.917	13.712	-1.082	1.00	0.00
ATOM	2042	HA	SER	122	-14.853	12.801	-0.486	1.00	0.00
ATOM	2043	CB	SER	122	-14.111	14.807	-0.388	1.00	0.00
ATOM	2044	HB2	SER	122	-14.249	15.732	-0.947	1.00	0.00
ATOM	2045	HB3	SER	122	-14.508	14.929	0.620	1.00	0.00
ATOM	2046	OG	SER	122	-12.734	14.501	-0.317	1.00	0.00
ATOM	2047	HG	SER	122	-12.270	15.215	0.126	1.00	0.00
ATOM	2048	C	SER	122	-16.367	14.142	-1.134	1.00	0.00
ATOM	2049	O	SER	122	-17.195	13.628	-0.386	1.00	0.00
ATOM	2050	N	HIE	123	-16.682	15.069	-2.038	1.00	0.00
ATOM	2051	H	HIE	123	-15.961	15.518	-2.584	1.00	0.00
ATOM	2052	CA	HIE	123	-18.050	15.566	-2.154	1.00	0.00
ATOM	2053	HA	HIE	123	-18.434	15.792	-1.159	1.00	0.00
ATOM	2054	CB	HIE	123	-18.122	16.839	-3.009	1.00	0.00
ATOM	2055	HB2	HIE	123	-17.653	16.817	-3.992	1.00	0.00
ATOM	2056	HB3	HIE	123	-19.193	17.004	-3.122	1.00	0.00
ATOM	2057	CG	HIE	123	-17.576	18.039	-2.301	1.00	0.00
ATOM	2058	ND1	HIE	123	-16.322	18.549	-2.558	1.00	0.00
ATOM	2059	CE1	HIE	123	-16.038	19.491	-1.678	1.00	0.00
ATOM	2060	HE1	HIE	123	-15.081	20.012	-1.707	1.00	0.00
ATOM	2061	NE2	HIE	123	-17.069	19.621	-0.866	1.00	0.00
ATOM	2062	HE2	HIE	123	-17.137	20.268	-0.093	1.00	0.00
ATOM	2063	CD2	HIE	123	-18.047	18.731	-1.237	1.00	0.00
ATOM	2064	HD2	HIE	123	-18.987	18.693	-0.686	1.00	0.00
ATOM	2065	C	HIE	123	-18.977	14.494	-2.636	1.00	0.00
ATOM	2066	O	HIE	123	-20.083	14.389	-2.130	1.00	0.00
ATOM	2067	N	PHE	124	-18.490	13.648	-3.540	1.00	0.00
ATOM	2068	H	PHE	124	-17.550	13.794	-3.879	1.00	0.00
ATOM	2069	CA	PHE	124	-19.249	12.536	-4.077	1.00	0.00
ATOM	2070	HA	PHE	124	-20.160	12.893	-4.556	1.00	0.00
ATOM	2071	CB	PHE	124	-18.401	11.805	-5.121	1.00	0.00
ATOM	2072	HB2	PHE	124	-18.434	12.338	-6.071	1.00	0.00
ATOM	2073	HB3	PHE	124	-17.369	11.745	-4.774	1.00	0.00
ATOM	2074	CG	PHE	124	-18.844	10.389	-5.405	1.00	0.00
ATOM	2075	CD1	PHE	124	-18.425	9.337	-4.596	1.00	0.00
ATOM	2076	HD1	PHE	124	-17.759	9.547	-3.759	1.00	0.00
ATOM	2077	CE1	PHE	124	-18.840	8.043	-4.839	1.00	0.00
ATOM	2078	HE1	PHE	124	-18.507	7.229	-4.194	1.00	0.00
ATOM	2079	CZ	PHE	124	-19.682	7.780	-5.907	1.00	0.00
ATOM	2080	HZ	PHE	124	-20.014	6.760	-6.103	1.00	0.00
ATOM	2081	CE2	PHE	124	-20.100	8.811	-6.723	1.00	0.00
ATOM	2082	HE2	PHE	124	-20.759	8.606	-7.567	1.00	0.00
ATOM	2083	CD2	PHE	124	-19.681	10.110	-6.469	1.00	0.00
ATOM	2084	HD2	PHE	124	-20.012	10.925	-7.112	1.00	0.00
ATOM	2085	C	PHE	124	-19.634	11.583	-2.948	1.00	0.00
ATOM	2086	O	PHE	124	-20.802	11.241	-2.782	1.00	0.00
ATOM	2087	N	LEU	125	-18.646	11.140	-2.182	1.00	0.00
ATOM	2088	H	LEU	125	-17.696	11.433	-2.358	1.00	0.00
ATOM	2089	CA	LEU	125	-18.891	10.210	-1.083	1.00	0.00
ATOM	2090	HA	LEU	125	-19.395	9.322	-1.464	1.00	0.00
ATOM	2091	CB	LEU	125	-17.571	9.778	-0.415	1.00	0.00
ATOM	2092	HB2	LEU	125	-17.208	10.713	0.012	1.00	0.00
ATOM	2093	HB3	LEU	125	-17.883	9.110	0.388	1.00	0.00
ATOM	2094	CG	LEU	125	-16.455	9.119	-1.220	1.00	0.00
ATOM	2095	HG	LEU	125	-16.105	9.804	-1.991	1.00	0.00
ATOM	2096	CD1	LEU	125	-15.311	8.778	-0.292	1.00	0.00

ATOM	2097	HD11	LEU	125	-15.660	8.092	0.480	1.00	0.00
ATOM	2098	HD12	LEU	125	-14.509	8.306	-0.860	1.00	0.00
ATOM	2099	HD13	LEU	125	-14.937	9.689	0.175	1.00	0.00
ATOM	2100	CD2	LEU	125	-16.982	7.879	-1.892	1.00	0.00
ATOM	2101	HD21	LEU	125	-17.801	8.147	-2.560	1.00	0.00
ATOM	2102	HD22	LEU	125	-16.184	7.409	-2.466	1.00	0.00
ATOM	2103	HD23	LEU	125	-17.344	7.181	-1.136	1.00	0.00
ATOM	2104	C	LEU	125	-19.784	10.860	-0.040	1.00	0.00
ATOM	2105	O	LEU	125	-20.622	10.199	0.588	1.00	0.00
ATOM	2106	N	LYS	126	-19.567	12.147	0.189	1.00	0.00
ATOM	2107	H	LYS	126	-18.838	12.659	-0.287	1.00	0.00
ATOM	2108	CA	LYS	126	-20.370	12.845	1.161	1.00	0.00
ATOM	2109	HA	LYS	126	-20.277	12.351	2.128	1.00	0.00
ATOM	2110	CB	LYS	126	-19.929	14.290	1.310	1.00	0.00
ATOM	2111	HB2	LYS	126	-18.843	14.314	1.405	1.00	0.00
ATOM	2112	HB3	LYS	126	-20.228	14.839	0.417	1.00	0.00
ATOM	2113	CG	LYS	126	-20.554	14.928	2.524	1.00	0.00
ATOM	2114	HG2	LYS	126	-21.623	14.718	2.495	1.00	0.00
ATOM	2115	HG3	LYS	126	-20.116	14.459	3.406	1.00	0.00
ATOM	2116	CD	LYS	126	-20.337	16.417	2.587	1.00	0.00
ATOM	2117	HD2	LYS	126	-19.283	16.622	2.773	1.00	0.00
ATOM	2118	HD3	LYS	126	-20.633	16.867	1.640	1.00	0.00
ATOM	2119	CE	LYS	126	-21.171	17.005	3.708	1.00	0.00
ATOM	2120	HE2	LYS	126	-20.944	18.067	3.798	1.00	0.00
ATOM	2121	HE3	LYS	126	-22.226	16.878	3.467	1.00	0.00
ATOM	2122	NZ	LYS	126	-20.870	16.319	5.006	1.00	0.00
ATOM	2123	HZ1	LYS	126	-19.892	16.436	5.230	1.00	0.00
ATOM	2124	HZ2	LYS	126	-21.434	16.723	5.740	1.00	0.00
ATOM	2125	HZ3	LYS	126	-21.081	15.334	4.924	1.00	0.00
ATOM	2126	C	LYS	126	-21.811	12.775	0.691	1.00	0.00
ATOM	2127	O	LYS	126	-22.701	12.467	1.479	1.00	0.00
ATOM	2128	N	GLU	127	-22.026	13.020	-0.601	1.00	0.00
ATOM	2129	H	GLU	127	-21.244	13.240	-1.200	1.00	0.00
ATOM	2130	CA	GLU	127	-23.357	12.967	-1.193	1.00	0.00
ATOM	2131	HA	GLU	127	-23.984	13.736	-0.742	1.00	0.00
ATOM	2132	CB	GLU	127	-23.303	13.204	-2.710	1.00	0.00
ATOM	2133	HB2	GLU	127	-22.602	12.472	-3.111	1.00	0.00
ATOM	2134	HB3	GLU	127	-24.303	12.996	-3.090	1.00	0.00
ATOM	2135	CG	GLU	127	-22.873	14.617	-3.144	1.00	0.00
ATOM	2136	HG2	GLU	127	-23.752	15.256	-3.061	1.00	0.00
ATOM	2137	HG3	GLU	127	-22.111	14.955	-2.441	1.00	0.00
ATOM	2138	CD	GLU	127	-22.314	14.692	-4.587	1.00	0.00
ATOM	2139	OE1	GLU	127	-22.642	13.826	-5.438	1.00	0.00
ATOM	2140	OE2	GLU	127	-21.532	15.631	-4.865	1.00	0.00
ATOM	2141	C	GLU	127	-23.910	11.580	-0.924	1.00	0.00
ATOM	2142	O	GLU	127	-24.993	11.453	-0.373	1.00	0.00
ATOM	2143	N	LYS	128	-23.117	10.552	-1.237	1.00	0.00
ATOM	2144	H	LYS	128	-22.227	10.754	-1.669	1.00	0.00
ATOM	2145	CA	LYS	128	-23.499	9.144	-1.054	1.00	0.00
ATOM	2146	HA	LYS	128	-24.406	8.925	-1.618	1.00	0.00
ATOM	2147	CB	LYS	128	-22.376	8.230	-1.558	1.00	0.00
ATOM	2148	HB2	LYS	128	-22.156	8.464	-2.599	1.00	0.00
ATOM	2149	HB3	LYS	128	-21.482	8.385	-0.954	1.00	0.00
ATOM	2150	CG	LYS	128	-22.817	6.774	-1.447	1.00	0.00
ATOM	2151	HG2	LYS	128	-23.037	6.539	-0.405	1.00	0.00
ATOM	2152	HG3	LYS	128	-23.711	6.617	-2.051	1.00	0.00
ATOM	2153	CD	LYS	128	-21.700	5.865	-1.948	1.00	0.00
ATOM	2154	HD2	LYS	128	-21.480	6.099	-2.989	1.00	0.00
ATOM	2155	HD3	LYS	128	-20.806	6.020	-1.344	1.00	0.00
ATOM	2156	CE	LYS	128	-22.141	4.410	-1.837	1.00	0.00
ATOM	2157	HE2	LYS	128	-22.360	4.174	-0.795	1.00	0.00
ATOM	2158	HE3	LYS	128	-23.035	4.254	-2.440	1.00	0.00
ATOM	2159	NZ	LYS	128	-21.064	3.533	-2.321	1.00	0.00
ATOM	2160	HZ1	LYS	128	-20.235	3.677	-1.761	1.00	0.00
ATOM	2161	HZ2	LYS	128	-21.356	2.569	-2.247	1.00	0.00
ATOM	2162	HZ3	LYS	128	-20.861	3.750	-3.286	1.00	0.00
ATOM	2163	C	LYS	128	-23.847	8.791	0.388	1.00	0.00
ATOM	2164	O	LYS	128	-24.455	7.764	0.657	1.00	0.00
ATOM	2165	N	GLY	129	-23.435	9.642	1.314	1.00	0.00
ATOM	2166	H	GLY	129	-22.912	10.469	1.064	1.00	0.00
ATOM	2167	CA	GLY	129	-23.724	9.409	2.715	1.00	0.00
ATOM	2168	HA2	GLY	129	-23.322	10.242	3.291	1.00	0.00
ATOM	2169	HA3	GLY	129	-24.806	9.370	2.840	1.00	0.00
ATOM	2170	C	GLY	129	-23.123	8.120	3.230	1.00	0.00
ATOM	2171	O	GLY	129	-23.823	7.289	3.806	1.00	0.00
ATOM	2172	N	GLY	130	-21.820	7.951	3.041	1.00	0.00
ATOM	2173	H	GLY	130	-21.251	8.646	2.579	1.00	0.00

ATOM	2174	CA	GLY	130	-21.178	6.735	3.507	1.00	0.00
ATOM	2175	HA2	GLY	130	-21.981	6.051	3.782	1.00	0.00
ATOM	2176	HA3	GLY	130	-20.633	6.330	2.654	1.00	0.00
ATOM	2177	C	GLY	130	-20.225	6.876	4.681	1.00	0.00
ATOM	2178	O	GLY	130	-20.588	6.587	5.819	1.00	0.00
ATOM	2179	N	LEU	131	-19.009	7.340	4.395	1.00	0.00
ATOM	2180	H	LEU	131	-18.794	7.569	3.435	1.00	0.00
ATOM	2181	CA	LEU	131	-17.957	7.492	5.394	1.00	0.00
ATOM	2182	HA	LEU	131	-17.650	6.515	5.769	1.00	0.00
ATOM	2183	CB	LEU	131	-16.756	8.171	4.772	1.00	0.00
ATOM	2184	HB2	LEU	131	-17.078	9.193	4.572	1.00	0.00
ATOM	2185	HB3	LEU	131	-15.972	8.179	5.529	1.00	0.00
ATOM	2186	CG	LEU	131	-16.223	7.555	3.503	1.00	0.00
ATOM	2187	HG	LEU	131	-16.990	7.576	2.729	1.00	0.00
ATOM	2188	CD1	LEU	131	-15.027	8.352	3.048	1.00	0.00
ATOM	2189	HD11	LEU	131	-14.260	8.330	3.822	1.00	0.00
ATOM	2190	HD12	LEU	131	-14.629	7.919	2.130	1.00	0.00
ATOM	2191	HD13	LEU	131	-15.326	9.383	2.863	1.00	0.00
ATOM	2192	CD2	LEU	131	-15.848	6.117	3.786	1.00	0.00
ATOM	2193	HD21	LEU	131	-16.729	5.570	4.122	1.00	0.00
ATOM	2194	HD22	LEU	131	-15.460	5.656	2.878	1.00	0.00
ATOM	2195	HD23	LEU	131	-15.084	6.086	4.563	1.00	0.00
ATOM	2196	C	LEU	131	-18.293	8.266	6.650	1.00	0.00
ATOM	2197	O	LEU	131	-17.700	8.018	7.697	1.00	0.00
ATOM	2198	N	GLU	132	-19.214	9.219	6.549	1.00	0.00
ATOM	2199	H	GLU	132	-19.664	9.418	5.667	1.00	0.00
ATOM	2200	CA	GLU	132	-19.537	10.058	7.692	1.00	0.00
ATOM	2201	HA	GLU	132	-18.664	10.653	7.961	1.00	0.00
ATOM	2202	CB	GLU	132	-20.696	11.004	7.381	1.00	0.00
ATOM	2203	HB2	GLU	132	-20.579	11.340	6.351	1.00	0.00
ATOM	2204	HB3	GLU	132	-21.620	10.434	7.474	1.00	0.00
ATOM	2205	CG	GLU	132	-20.750	12.217	8.310	1.00	0.00
ATOM	2206	HG2	GLU	132	-21.646	12.787	8.064	1.00	0.00
ATOM	2207	HG3	GLU	132	-20.822	11.852	9.335	1.00	0.00
ATOM	2208	CD	GLU	132	-19.529	13.111	8.176	1.00	0.00
ATOM	2209	OE1	GLU	132	-19.256	13.566	7.046	1.00	0.00
ATOM	2210	OE2	GLU	132	-18.843	13.360	9.190	1.00	0.00
ATOM	2211	C	GLU	132	-19.850	9.251	8.917	1.00	0.00
ATOM	2212	O	GLU	132	-20.686	8.357	8.883	1.00	0.00
ATOM	2213	N	GLY	133	-19.129	9.529	9.987	1.00	0.00
ATOM	2214	H	GLY	133	-18.409	10.237	9.975	1.00	0.00
ATOM	2215	CA	GLY	133	-19.362	8.811	11.218	1.00	0.00
ATOM	2216	HA2	GLY	133	-18.874	9.372	12.015	1.00	0.00
ATOM	2217	HA3	GLY	133	-20.439	8.803	11.387	1.00	0.00
ATOM	2218	C	GLY	133	-18.849	7.383	11.235	1.00	0.00
ATOM	2219	O	GLY	133	-18.432	6.903	12.292	1.00	0.00
ATOM	2220	N	LEU	134	-18.852	6.705	10.089	1.00	0.00
ATOM	2221	H	LEU	134	-19.219	7.131	9.250	1.00	0.00
ATOM	2222	CA	LEU	134	-18.388	5.316	10.017	1.00	0.00
ATOM	2223	HA	LEU	134	-19.128	4.655	10.468	1.00	0.00
ATOM	2224	CB	LEU	134	-18.181	4.897	8.561	1.00	0.00
ATOM	2225	HB2	LEU	134	-19.156	5.012	8.088	1.00	0.00
ATOM	2226	HB3	LEU	134	-17.484	5.620	8.138	1.00	0.00
ATOM	2227	CG	LEU	134	-17.658	3.480	8.313	1.00	0.00
ATOM	2228	HG	LEU	134	-16.709	3.347	8.834	1.00	0.00
ATOM	2229	CD1	LEU	134	-18.654	2.479	8.825	1.00	0.00
ATOM	2230	HD11	LEU	134	-19.603	2.611	8.305	1.00	0.00
ATOM	2231	HD12	LEU	134	-18.280	1.470	8.648	1.00	0.00
ATOM	2232	HD13	LEU	134	-18.803	2.628	9.895	1.00	0.00
ATOM	2233	CD2	LEU	134	-17.441	3.270	6.834	1.00	0.00
ATOM	2234	HD21	LEU	134	-16.713	3.993	6.467	1.00	0.00
ATOM	2235	HD22	LEU	134	-17.069	2.260	6.661	1.00	0.00
ATOM	2236	HD23	LEU	134	-18.385	3.404	6.305	1.00	0.00
ATOM	2237	C	LEU	134	-17.097	5.079	10.801	1.00	0.00
ATOM	2238	O	LEU	134	-16.150	5.879	10.719	1.00	0.00
ATOM	2239	N	ILE	135	-17.080	4.023	11.608	1.00	0.00
ATOM	2240	H	ILE	135	-17.895	3.440	11.734	1.00	0.00
ATOM	2241	CA	ILE	135	-15.882	3.708	12.372	1.00	0.00
ATOM	2242	HA	ILE	135	-15.474	4.621	12.806	1.00	0.00
ATOM	2243	CB	ILE	135	-16.136	2.683	13.485	1.00	0.00
ATOM	2244	HB	ILE	135	-16.626	1.804	13.065	1.00	0.00
ATOM	2245	CG2	ILE	135	-14.798	2.269	14.119	1.00	0.00
ATOM	2246	HG21	ILE	135	-14.308	3.147	14.540	1.00	0.00
ATOM	2247	HG22	ILE	135	-14.980	1.541	14.910	1.00	0.00
ATOM	2248	HG23	ILE	135	-14.156	1.825	13.358	1.00	0.00
ATOM	2249	CG1	ILE	135	-17.087	3.267	14.544	1.00	0.00
ATOM	2250	HG12	ILE	135	-17.906	3.744	14.006	1.00	0.00

ATOM	2251	HG13	ILE	135	-17.473	2.426	15.121	1.00	0.00
ATOM	2252	CD1	ILE	135	-16.448	4.268	15.479	1.00	0.00
ATOM	2253	HD11	ILE	135	-16.062	5.109	14.903	1.00	0.00
ATOM	2254	HD12	ILE	135	-17.191	4.626	16.191	1.00	0.00
ATOM	2255	HD13	ILE	135	-15.629	3.791	16.018	1.00	0.00
ATOM	2256	C	ILE	135	-14.827	3.180	11.407	1.00	0.00
ATOM	2257	O	ILE	135	-15.093	2.315	10.557	1.00	0.00
ATOM	2258	N	HIE	136	-13.636	3.745	11.527	1.00	0.00
ATOM	2259	H	HIE	136	-13.502	4.472	12.215	1.00	0.00
ATOM	2260	CA	HIE	136	-12.523	3.398	10.669	1.00	0.00
ATOM	2261	HA	HIE	136	-12.855	3.327	9.633	1.00	0.00
ATOM	2262	CB	HIE	136	-11.451	4.467	10.762	1.00	0.00
ATOM	2263	HB2	HIE	136	-11.900	5.433	10.533	1.00	0.00
ATOM	2264	HB3	HIE	136	-10.995	4.505	11.752	1.00	0.00
ATOM	2265	CG	HIE	136	-10.342	4.271	9.789	1.00	0.00
ATOM	2266	ND1	HIE	136	-9.078	3.882	10.168	1.00	0.00
ATOM	2267	CE1	HIE	136	-8.319	3.755	9.095	1.00	0.00
ATOM	2268	HE1	HIE	136	-7.275	3.453	9.184	1.00	0.00
ATOM	2269	NE2	HIE	136	-9.049	4.047	8.035	1.00	0.00
ATOM	2270	HE2	HIE	136	-8.733	4.033	7.076	1.00	0.00
ATOM	2271	CD2	HIE	136	-10.317	4.375	8.441	1.00	0.00
ATOM	2272	HD2	HIE	136	-11.071	4.650	7.704	1.00	0.00
ATOM	2273	C	HIE	136	-11.876	2.058	10.948	1.00	0.00
ATOM	2274	O	HIE	136	-11.780	1.623	12.095	1.00	0.00
ATOM	2275	N	SER	137	-11.377	1.444	9.882	1.00	0.00
ATOM	2276	H	SER	137	-11.490	1.879	8.978	1.00	0.00
ATOM	2277	CA	SER	137	-10.679	0.166	9.951	1.00	0.00
ATOM	2278	HA	SER	137	-10.040	0.147	10.834	1.00	0.00
ATOM	2279	CB	SER	137	-11.672	-0.999	10.040	1.00	0.00
ATOM	2280	HB2	SER	137	-11.117	-1.913	10.254	1.00	0.00
ATOM	2281	HB3	SER	137	-12.369	-0.800	10.854	1.00	0.00
ATOM	2282	OG	SER	137	-12.391	-1.156	8.832	1.00	0.00
ATOM	2283	HG	SER	137	-13.003	-1.891	8.917	1.00	0.00
ATOM	2284	C	SER	137	-9.836	0.044	8.683	1.00	0.00
ATOM	2285	O	SER	137	-10.252	0.490	7.609	1.00	0.00
ATOM	2286	N	GLN	138	-8.640	-0.520	8.821	1.00	0.00
ATOM	2287	H	GLN	138	-8.339	-0.845	9.729	1.00	0.00
ATOM	2288	CA	GLN	138	-7.745	-0.702	7.694	1.00	0.00
ATOM	2289	HA	GLN	138	-7.406	0.270	7.338	1.00	0.00
ATOM	2290	CB	GLN	138	-6.531	-1.525	8.089	1.00	0.00
ATOM	2291	HB2	GLN	138	-6.140	-1.122	9.023	1.00	0.00
ATOM	2292	HB3	GLN	138	-6.857	-2.553	8.246	1.00	0.00
ATOM	2293	CG	GLN	138	-5.459	-1.496	7.046	1.00	0.00
ATOM	2294	HG2	GLN	138	-4.586	-2.029	7.424	1.00	0.00
ATOM	2295	HG3	GLN	138	-5.808	-1.974	6.131	1.00	0.00
ATOM	2296	CD	GLN	138	-5.056	-0.076	6.726	1.00	0.00
ATOM	2297	OE1	GLN	138	-4.879	0.744	7.631	1.00	0.00
ATOM	2298	NE2	GLN	138	-4.926	0.235	5.444	1.00	0.00
ATOM	2299	HE21	GLN	138	-4.658	1.172	5.180	1.00	0.00
ATOM	2300	HE22	GLN	138	-5.095	-0.467	4.738	1.00	0.00
ATOM	2301	C	GLN	138	-8.485	-1.433	6.607	1.00	0.00
ATOM	2302	O	GLN	138	-8.346	-1.108	5.435	1.00	0.00
ATOM	2303	N	ARG	139	-9.287	-2.417	6.994	1.00	0.00
ATOM	2304	H	ARG	139	-9.327	-2.718	7.958	1.00	0.00
ATOM	2305	CA	ARG	139	-10.043	-3.167	6.006	1.00	0.00
ATOM	2306	HA	ARG	139	-9.374	-3.501	5.213	1.00	0.00
ATOM	2307	CB	ARG	139	-10.708	-4.397	6.636	1.00	0.00
ATOM	2308	HB2	ARG	139	-9.910	-5.089	6.909	1.00	0.00
ATOM	2309	HB3	ARG	139	-11.219	-4.059	7.538	1.00	0.00
ATOM	2310	CG	ARG	139	-11.713	-5.111	5.715	1.00	0.00
ATOM	2311	HG2	ARG	139	-12.043	-6.016	6.226	1.00	0.00
ATOM	2312	HG3	ARG	139	-12.563	-4.444	5.574	1.00	0.00
ATOM	2313	CD	ARG	139	-11.127	-5.479	4.360	1.00	0.00
ATOM	2314	HD2	ARG	139	-11.939	-5.796	3.706	1.00	0.00
ATOM	2315	HD3	ARG	139	-10.645	-4.596	3.940	1.00	0.00
ATOM	2316	NE	ARG	139	-10.145	-6.554	4.439	1.00	0.00
ATOM	2317	HE	ARG	139	-9.201	-6.301	4.696	1.00	0.00
ATOM	2318	CZ	ARG	139	-10.422	-7.838	4.223	1.00	0.00
ATOM	2319	NH1	ARG	139	-11.660	-8.216	3.914	1.00	0.00
ATOM	2320	HH11	ARG	139	-12.393	-7.525	3.843	1.00	0.00
ATOM	2321	HH12	ARG	139	-11.861	-9.193	3.752	1.00	0.00
ATOM	2322	NH2	ARG	139	-9.452	-8.743	4.287	1.00	0.00
ATOM	2323	HH21	ARG	139	-8.508	-8.453	4.500	1.00	0.00
ATOM	2324	HH22	ARG	139	-9.663	-9.717	4.123	1.00	0.00
ATOM	2325	C	ARG	139	-11.065	-2.294	5.277	1.00	0.00
ATOM	2326	O	ARG	139	-11.104	-2.279	4.045	1.00	0.00
ATOM	2327	N	ARG	140	-11.871	-1.551	6.028	1.00	0.00

ATOM	2328	H	ARG	140	-11.795	-1.569	7.035	1.00	0.00
ATOM	2329	CA	ARG	140	-12.882	-0.687	5.425	1.00	0.00
ATOM	2330	HA	ARG	140	-13.600	-1.290	4.869	1.00	0.00
ATOM	2331	CB	ARG	140	-13.624	0.084	6.494	1.00	0.00
ATOM	2332	HB2	ARG	140	-12.883	0.372	7.240	1.00	0.00
ATOM	2333	HB3	ARG	140	-14.021	0.977	6.013	1.00	0.00
ATOM	2334	CG	ARG	140	-14.734	-0.658	7.158	1.00	0.00
ATOM	2335	HG2	ARG	140	-15.572	-0.784	6.472	1.00	0.00
ATOM	2336	HG3	ARG	140	-14.390	-1.637	7.494	1.00	0.00
ATOM	2337	CD	ARG	140	-15.173	0.148	8.338	1.00	0.00
ATOM	2338	HD2	ARG	140	-14.396	0.111	9.102	1.00	0.00
ATOM	2339	HD3	ARG	140	-15.326	1.181	8.025	1.00	0.00
ATOM	2340	NE	ARG	140	-16.407	-0.351	8.908	1.00	0.00
ATOM	2341	HE	ARG	140	-17.184	-0.516	8.284	1.00	0.00
ATOM	2342	CZ	ARG	140	-16.547	-0.662	10.187	1.00	0.00
ATOM	2343	NH1	ARG	140	-15.518	-0.535	11.018	1.00	0.00
ATOM	2344	HH11	ARG	140	-14.630	-0.201	10.671	1.00	0.00
ATOM	2345	HH12	ARG	140	-15.628	-0.773	11.994	1.00	0.00
ATOM	2346	NH2	ARG	140	-17.735	-1.036	10.650	1.00	0.00
ATOM	2347	HH21	ARG	140	-18.526	-1.082	10.024	1.00	0.00
ATOM	2348	HH22	ARG	140	-17.841	-1.273	11.626	1.00	0.00
ATOM	2349	C	ARG	140	-12.233	0.308	4.484	1.00	0.00
ATOM	2350	O	ARG	140	-12.713	0.542	3.373	1.00	0.00
ATOM	2351	N	GLN	141	-11.127	0.885	4.928	1.00	0.00
ATOM	2352	H	GLN	141	-10.774	0.701	5.857	1.00	0.00
ATOM	2353	CA	GLN	141	-10.431	1.848	4.110	1.00	0.00
ATOM	2354	HA	GLN	141	-11.142	2.580	3.729	1.00	0.00
ATOM	2355	CB	GLN	141	-9.363	2.577	4.905	1.00	0.00
ATOM	2356	HB2	GLN	141	-9.776	2.852	5.876	1.00	0.00
ATOM	2357	HB3	GLN	141	-8.515	1.907	5.049	1.00	0.00
ATOM	2358	CG	GLN	141	-8.910	3.805	4.191	1.00	0.00
ATOM	2359	HG2	GLN	141	-8.747	3.576	3.138	1.00	0.00
ATOM	2360	HG3	GLN	141	-9.690	4.560	4.282	1.00	0.00
ATOM	2361	CD	GLN	141	-7.652	4.352	4.757	1.00	0.00
ATOM	2362	OE1	GLN	141	-7.474	4.412	5.970	1.00	0.00
ATOM	2363	NE2	GLN	141	-6.749	4.746	3.887	1.00	0.00
ATOM	2364	HE21	GLN	141	-5.872	5.127	4.212	1.00	0.00
ATOM	2365	HE22	GLN	141	-6.936	4.665	2.898	1.00	0.00
ATOM	2366	C	GLN	141	-9.804	1.203	2.887	1.00	0.00
ATOM	2367	O	GLN	141	-9.808	1.800	1.810	1.00	0.00
ATOM	2368	N	ASP	142	-9.242	0.006	3.042	1.00	0.00
ATOM	2369	H	ASP	142	-9.233	-0.464	3.936	1.00	0.00
ATOM	2370	CA	ASP	142	-8.627	-0.664	1.904	1.00	0.00
ATOM	2371	HA	ASP	142	-7.867	-0.012	1.474	1.00	0.00
ATOM	2372	CB	ASP	142	-7.970	-1.977	2.308	1.00	0.00
ATOM	2373	HB2	ASP	142	-8.703	-2.570	2.855	1.00	0.00
ATOM	2374	HB3	ASP	142	-7.689	-2.501	1.394	1.00	0.00
ATOM	2375	CG	ASP	142	-6.747	-1.774	3.166	1.00	0.00
ATOM	2376	OD1	ASP	142	-6.301	-0.612	3.279	1.00	0.00
ATOM	2377	OD2	ASP	142	-6.235	-2.769	3.732	1.00	0.00
ATOM	2378	C	ASP	142	-9.734	-0.931	0.931	1.00	0.00
ATOM	2379	O	ASP	142	-9.549	-0.800	-0.275	1.00	0.00
ATOM	2380	N	ILE	143	-10.899	-1.276	1.459	1.00	0.00
ATOM	2381	H	ILE	143	-10.998	-1.421	2.454	1.00	0.00
ATOM	2382	CA	ILE	143	-12.043	-1.529	0.612	1.00	0.00
ATOM	2383	HA	ILE	143	-11.784	-2.287	-0.128	1.00	0.00
ATOM	2384	CB	ILE	143	-13.238	-2.010	1.437	1.00	0.00
ATOM	2385	HB	ILE	143	-13.393	-1.326	2.272	1.00	0.00
ATOM	2386	CG2	ILE	143	-14.477	-2.051	0.586	1.00	0.00
ATOM	2387	HG21	ILE	143	-14.323	-2.735	-0.248	1.00	0.00
ATOM	2388	HG22	ILE	143	-15.319	-2.395	1.186	1.00	0.00
ATOM	2389	HG23	ILE	143	-14.688	-1.053	0.203	1.00	0.00
ATOM	2390	CG1	ILE	143	-12.938	-3.407	1.985	1.00	0.00
ATOM	2391	HG12	ILE	143	-12.607	-4.020	1.147	1.00	0.00
ATOM	2392	HG13	ILE	143	-12.125	-3.306	2.704	1.00	0.00
ATOM	2393	CD1	ILE	143	-14.111	-4.061	2.648	1.00	0.00
ATOM	2394	HD11	ILE	143	-14.924	-4.164	1.930	1.00	0.00
ATOM	2395	HD12	ILE	143	-13.821	-5.047	3.011	1.00	0.00
ATOM	2396	HD13	ILE	143	-14.443	-3.449	3.487	1.00	0.00
ATOM	2397	C	ILE	143	-12.372	-0.258	-0.176	1.00	0.00
ATOM	2398	O	ILE	143	-12.555	-0.305	-1.398	1.00	0.00
ATOM	2399	N	LEU	144	-12.372	0.885	0.506	1.00	0.00
ATOM	2400	H	LEU	144	-12.177	0.882	1.497	1.00	0.00
ATOM	2401	CA	LEU	144	-12.639	2.164	-0.143	1.00	0.00
ATOM	2402	HA	LEU	144	-13.648	2.173	-0.556	1.00	0.00
ATOM	2403	CB	LEU	144	-12.520	3.292	0.876	1.00	0.00
ATOM	2404	HB2	LEU	144	-12.646	2.773	1.826	1.00	0.00

ATOM	2405	HB3	LEU	144	-11.482	3.607	0.770	1.00	0.00
ATOM	2406	CG	LEU	144	-13.433	4.521	0.841	1.00	0.00
ATOM	2407	HG	LEU	144	-14.426	4.277	1.218	1.00	0.00
ATOM	2408	CD1	LEU	144	-12.801	5.555	1.728	1.00	0.00
ATOM	2409	HD11	LEU	144	-11.808	5.799	1.351	1.00	0.00
ATOM	2410	HD12	LEU	144	-13.418	6.453	1.736	1.00	0.00
ATOM	2411	HD13	LEU	144	-12.718	5.163	2.742	1.00	0.00
ATOM	2412	CD2	LEU	144	-13.585	5.072	-0.554	1.00	0.00
ATOM	2413	HD21	LEU	144	-14.017	4.309	-1.201	1.00	0.00
ATOM	2414	HD22	LEU	144	-14.240	5.942	-0.532	1.00	0.00
ATOM	2415	HD23	LEU	144	-12.608	5.363	-0.938	1.00	0.00
ATOM	2416	C	LEU	144	-11.617	2.381	-1.252	1.00	0.00
ATOM	2417	O	LEU	144	-11.975	2.438	-2.429	1.00	0.00
ATOM	2418	N	ASP	145	-10.340	2.457	-0.865	1.00	0.00
ATOM	2419	H	ASP	145	-10.144	2.407	0.125	1.00	0.00
ATOM	2420	CA	ASP	145	-9.213	2.671	-1.790	1.00	0.00
ATOM	2421	HA	ASP	145	-9.244	3.687	-2.181	1.00	0.00
ATOM	2422	CB	ASP	145	-7.889	2.468	-1.070	1.00	0.00
ATOM	2423	HB2	ASP	145	-7.864	1.450	-0.679	1.00	0.00
ATOM	2424	HB3	ASP	145	-7.092	2.594	-1.803	1.00	0.00
ATOM	2425	CG	ASP	145	-7.690	3.447	0.063	1.00	0.00
ATOM	2426	OD1	ASP	145	-8.039	4.631	-0.102	1.00	0.00
ATOM	2427	OD2	ASP	145	-7.191	3.037	1.129	1.00	0.00
ATOM	2428	C	ASP	145	-9.251	1.781	-3.014	1.00	0.00
ATOM	2429	O	ASP	145	-8.940	2.220	-4.128	1.00	0.00
ATOM	2430	N	LEU	146	-9.598	0.517	-2.801	1.00	0.00
ATOM	2431	H	LEU	146	-9.764	0.180	-1.863	1.00	0.00
ATOM	2432	CA	LEU	146	-9.703	-0.423	-3.897	1.00	0.00
ATOM	2433	HA	LEU	146	-8.801	-0.364	-4.505	1.00	0.00
ATOM	2434	CB	LEU	146	-9.865	-1.863	-3.400	1.00	0.00
ATOM	2435	HB2	LEU	146	-10.534	-1.761	-2.545	1.00	0.00
ATOM	2436	HB3	LEU	146	-10.351	-2.460	-4.172	1.00	0.00
ATOM	2437	CG	LEU	146	-8.573	-2.557	-2.957	1.00	0.00
ATOM	2438	HG	LEU	146	-7.917	-1.833	-2.475	1.00	0.00
ATOM	2439	CD1	LEU	146	-8.907	-3.665	-1.978	1.00	0.00
ATOM	2440	HD11	LEU	146	-9.563	-4.391	-2.459	1.00	0.00
ATOM	2441	HD12	LEU	146	-7.989	-4.160	-1.661	1.00	0.00
ATOM	2442	HD13	LEU	146	-9.410	-3.243	-1.108	1.00	0.00
ATOM	2443	CD2	LEU	146	-7.802	-3.073	-4.167	1.00	0.00
ATOM	2444	HD21	LEU	146	-7.549	-2.238	-4.820	1.00	0.00
ATOM	2445	HD22	LEU	146	-6.887	-3.563	-3.833	1.00	0.00
ATOM	2446	HD23	LEU	146	-8.418	-3.788	-4.713	1.00	0.00
ATOM	2447	C	LEU	146	-10.874	-0.037	-4.765	1.00	0.00
ATOM	2448	O	LEU	146	-10.761	-0.089	-5.992	1.00	0.00
ATOM	2449	N	TRP	147	-11.991	0.368	-4.160	1.00	0.00
ATOM	2450	H	TRP	147	-12.083	0.369	-3.154	1.00	0.00
ATOM	2451	CA	TRP	147	-13.150	0.771	-4.965	1.00	0.00
ATOM	2452	HA	TRP	147	-13.425	-0.052	-5.624	1.00	0.00
ATOM	2453	CB	TRP	147	-14.362	1.131	-4.100	1.00	0.00
ATOM	2454	HB2	TRP	147	-14.684	0.192	-3.649	1.00	0.00
ATOM	2455	HB3	TRP	147	-14.220	1.878	-3.319	1.00	0.00
ATOM	2456	CG	TRP	147	-15.502	1.612	-4.954	1.00	0.00
ATOM	2457	CD1	TRP	147	-16.280	0.855	-5.790	1.00	0.00
ATOM	2458	HD1	TRP	147	-16.134	-0.225	-5.755	1.00	0.00
ATOM	2459	NE1	TRP	147	-17.114	1.665	-6.523	1.00	0.00
ATOM	2460	HE1	TRP	147	-17.776	1.349	-7.217	1.00	0.00
ATOM	2461	CE2	TRP	147	-16.903	2.970	-6.160	1.00	0.00
ATOM	2462	CZ2	TRP	147	-17.507	4.137	-6.616	1.00	0.00
ATOM	2463	HZ2	TRP	147	-18.278	4.058	-7.382	1.00	0.00
ATOM	2464	CH2	TRP	147	-17.092	5.316	-6.070	1.00	0.00
ATOM	2465	HH2	TRP	147	-17.546	6.248	-6.405	1.00	0.00
ATOM	2466	CZ3	TRP	147	-16.094	5.361	-5.085	1.00	0.00
ATOM	2467	HZ3	TRP	147	-15.770	6.310	-4.657	1.00	0.00
ATOM	2468	CE3	TRP	147	-15.491	4.202	-4.627	1.00	0.00
ATOM	2469	HE3	TRP	147	-14.714	4.287	-3.867	1.00	0.00
ATOM	2470	CD2	TRP	147	-15.897	2.976	-5.169	1.00	0.00
ATOM	2471	C	TRP	147	-12.772	1.956	-5.855	1.00	0.00
ATOM	2472	O	TRP	147	-12.968	1.926	-7.078	1.00	0.00
ATOM	2473	N	ILE	148	-12.200	2.989	-5.240	1.00	0.00
ATOM	2474	H	ILE	148	-12.084	2.975	-4.237	1.00	0.00
ATOM	2475	CA	ILE	148	-11.760	4.181	-5.976	1.00	0.00
ATOM	2476	HA	ILE	148	-12.602	4.634	-6.499	1.00	0.00
ATOM	2477	CB	ILE	148	-11.124	5.229	-5.008	1.00	0.00
ATOM	2478	HB	ILE	148	-10.290	4.762	-4.484	1.00	0.00
ATOM	2479	CG2	ILE	148	-10.632	6.426	-5.763	1.00	0.00
ATOM	2480	HG21	ILE	148	-11.466	6.894	-6.286	1.00	0.00
ATOM	2481	HG22	ILE	148	-10.194	7.140	-5.066	1.00	0.00

ATOM	2482	HG23	ILE	148	-9.878	6.115	-6.486	1.00	0.00
ATOM	2483	CG1	ILE	148	-12.133	5.672	-3.952	1.00	0.00
ATOM	2484	HG12	ILE	148	-13.012	6.054	-4.470	1.00	0.00
ATOM	2485	HG13	ILE	148	-12.409	4.795	-3.366	1.00	0.00
ATOM	2486	CD1	ILE	148	-11.587	6.741	-3.032	1.00	0.00
ATOM	2487	HD11	ILE	148	-11.311	7.618	-3.617	1.00	0.00
ATOM	2488	HD12	ILE	148	-12.348	7.016	-2.302	1.00	0.00
ATOM	2489	HD13	ILE	148	-10.708	6.360	-2.512	1.00	0.00
ATOM	2490	C	ILE	148	-10.742	3.768	-7.058	1.00	0.00
ATOM	2491	O	ILE	148	-10.762	4.285	-8.170	1.00	0.00
ATOM	2492	N	TYR	149	-9.854	2.833	-6.730	1.00	0.00
ATOM	2493	H	TYR	149	-9.852	2.441	-5.799	1.00	0.00
ATOM	2494	CA	TYR	149	-8.861	2.353	-7.684	1.00	0.00
ATOM	2495	HA	TYR	149	-8.278	3.193	-8.060	1.00	0.00
ATOM	2496	CB	TYR	149	-7.916	1.362	-7.027	1.00	0.00
ATOM	2497	HB2	TYR	149	-7.395	1.835	-6.195	1.00	0.00
ATOM	2498	HB3	TYR	149	-8.559	0.567	-6.648	1.00	0.00
ATOM	2499	CG	TYR	149	-6.903	0.776	-7.988	1.00	0.00
ATOM	2500	CD1	TYR	149	-6.102	1.605	-8.763	1.00	0.00
ATOM	2501	HD1	TYR	149	-6.263	2.681	-8.709	1.00	0.00
ATOM	2502	CE1	TYR	149	-5.115	1.092	-9.591	1.00	0.00
ATOM	2503	HE1	TYR	149	-4.530	1.752	-10.231	1.00	0.00
ATOM	2504	CZ	TYR	149	-4.921	-0.266	-9.645	1.00	0.00
ATOM	2505	OH	TYR	149	-3.889	-0.750	-10.407	1.00	0.00
ATOM	2506	HH	TYR	149	-3.387	-0.057	-10.842	1.00	0.00
ATOM	2507	CE2	TYR	149	-5.710	-1.123	-8.897	1.00	0.00
ATOM	2508	HE2	TYR	149	-5.560	-2.202	-8.950	1.00	0.00
ATOM	2509	CD2	TYR	149	-6.700	-0.598	-8.073	1.00	0.00
ATOM	2510	HD2	TYR	149	-7.329	-1.265	-7.483	1.00	0.00
ATOM	2511	C	TYR	149	-9.509	1.661	-8.875	1.00	0.00
ATOM	2512	O	TYR	149	-9.154	1.924	-10.030	1.00	0.00
ATOM	2513	N	HIE	150	-10.426	0.744	-8.593	1.00	0.00
ATOM	2514	H	HIE	150	-10.664	0.523	-7.636	1.00	0.00
ATOM	2515	CA	HIE	150	-11.096	0.015	-9.655	1.00	0.00
ATOM	2516	HA	HIE	150	-10.360	-0.484	-10.285	1.00	0.00
ATOM	2517	CB	HIE	150	-12.021	-1.033	-9.067	1.00	0.00
ATOM	2518	HB2	HIE	150	-12.718	-0.631	-8.331	1.00	0.00
ATOM	2519	HB3	HIE	150	-12.580	-1.475	-9.892	1.00	0.00
ATOM	2520	CG	HIE	150	-11.293	-2.147	-8.400	1.00	0.00
ATOM	2521	ND1	HIE	150	-11.634	-2.617	-7.151	1.00	0.00
ATOM	2522	CE1	HIE	150	-10.776	-3.553	-6.787	1.00	0.00
ATOM	2523	HE1	HIE	150	-10.871	-4.051	-5.822	1.00	0.00
ATOM	2524	NE2	HIE	150	-9.895	-3.708	-7.760	1.00	0.00
ATOM	2525	HE2	HIE	150	-9.121	-4.357	-7.759	1.00	0.00
ATOM	2526	CD2	HIE	150	-10.197	-2.843	-8.782	1.00	0.00
ATOM	2527	HD2	HIE	150	-9.581	-2.826	-9.681	1.00	0.00
ATOM	2528	C	HIE	150	-11.900	0.934	-10.537	1.00	0.00
ATOM	2529	O	HIE	150	-11.769	0.922	-11.770	1.00	0.00
ATOM	2530	N	THR	151	-12.711	1.748	-9.874	1.00	0.00
ATOM	2531	H	THR	151	-12.740	1.647	-8.869	1.00	0.00
ATOM	2532	CA	THR	151	-13.619	2.691	-10.497	1.00	0.00
ATOM	2533	HA	THR	151	-14.179	2.272	-11.333	1.00	0.00
ATOM	2534	CB	THR	151	-14.616	3.158	-9.421	1.00	0.00
ATOM	2535	HB	THR	151	-14.055	3.465	-8.538	1.00	0.00
ATOM	2536	CG2	THR	151	-15.449	4.309	-9.911	1.00	0.00
ATOM	2537	HG21	THR	151	-16.010	4.002	-10.793	1.00	0.00
ATOM	2538	HG22	THR	151	-16.143	4.615	-9.128	1.00	0.00
ATOM	2539	HG23	THR	151	-14.799	5.145	-10.167	1.00	0.00
ATOM	2540	OG1	THR	151	-15.452	2.054	-9.023	1.00	0.00
ATOM	2541	HG1	THR	151	-16.073	2.348	-8.352	1.00	0.00
ATOM	2542	C	THR	151	-12.987	3.898	-11.202	1.00	0.00
ATOM	2543	O	THR	151	-13.275	4.171	-12.371	1.00	0.00
ATOM	2544	N	GLN	152	-12.075	4.578	-10.520	1.00	0.00
ATOM	2545	H	GLN	152	-11.842	4.314	-9.573	1.00	0.00
ATOM	2546	CA	GLN	152	-11.477	5.788	-11.067	1.00	0.00
ATOM	2547	HA	GLN	152	-11.947	6.049	-12.015	1.00	0.00
ATOM	2548	CB	GLN	152	-11.683	6.943	-10.085	1.00	0.00
ATOM	2549	HB2	GLN	152	-11.142	6.687	-9.174	1.00	0.00
ATOM	2550	HB3	GLN	152	-11.235	7.828	-10.536	1.00	0.00
ATOM	2551	CG	GLN	152	-13.144	7.229	-9.745	1.00	0.00
ATOM	2552	HG2	GLN	152	-13.615	6.334	-9.338	1.00	0.00
ATOM	2553	HG3	GLN	152	-13.174	8.025	-9.001	1.00	0.00
ATOM	2554	CD	GLN	152	-13.926	7.677	-10.966	1.00	0.00
ATOM	2555	OE1	GLN	152	-15.107	7.098	-11.161	1.00	0.00
ATOM	2556	NE2	GLN	152	-13.482	8.553	-11.721	1.00	0.00
ATOM	2557	HE21	GLN	152	-14.017	8.838	-12.529	1.00	0.00
ATOM	2558	HE22	GLN	152	-12.587	8.978	-11.525	1.00	0.00

ATOM	2559	C	GLN	152	-10.027	5.734	-11.476	1.00	0.00
ATOM	2560	O	GLN	152	-9.548	6.678	-12.083	1.00	0.00
ATOM	2561	N	GLY	153	-9.304	4.679	-11.102	1.00	0.00
ATOM	2562	H	GLY	153	-9.710	3.940	-10.545	1.00	0.00
ATOM	2563	CA	GLY	153	-7.896	4.563	-11.490	1.00	0.00
ATOM	2564	HA2	GLY	153	-7.675	3.496	-11.504	1.00	0.00
ATOM	2565	HA3	GLY	153	-7.829	4.961	-12.502	1.00	0.00
ATOM	2566	C	GLY	153	-6.874	5.269	-10.612	1.00	0.00
ATOM	2567	O	GLY	153	-5.712	5.445	-10.993	1.00	0.00
ATOM	2568	N	TYR	154	-7.286	5.650	-9.413	1.00	0.00
ATOM	2569	H	TYR	154	-8.238	5.495	-9.114	1.00	0.00
ATOM	2570	CA	TYR	154	-6.394	6.328	-8.517	1.00	0.00
ATOM	2571	HA	TYR	154	-5.624	6.853	-9.083	1.00	0.00
ATOM	2572	CB	TYR	154	-7.169	7.352	-7.677	1.00	0.00
ATOM	2573	HB2	TYR	154	-8.005	6.866	-7.173	1.00	0.00
ATOM	2574	HB3	TYR	154	-6.457	7.712	-6.934	1.00	0.00
ATOM	2575	CG	TYR	154	-7.678	8.512	-8.487	1.00	0.00
ATOM	2576	CD1	TYR	154	-6.793	9.357	-9.132	1.00	0.00
ATOM	2577	HD1	TYR	154	-5.723	9.201	-8.995	1.00	0.00
ATOM	2578	CE1	TYR	154	-7.251	10.400	-9.951	1.00	0.00
ATOM	2579	HE1	TYR	154	-6.543	11.093	-10.405	1.00	0.00
ATOM	2580	CZ	TYR	154	-8.601	10.589	-10.118	1.00	0.00
ATOM	2581	OH	TYR	154	-9.008	11.555	-10.989	1.00	0.00
ATOM	2582	HH	TYR	154	-8.277	12.015	-11.407	1.00	0.00
ATOM	2583	CE2	TYR	154	-9.519	9.769	-9.476	1.00	0.00
ATOM	2584	HE2	TYR	154	-10.591	9.923	-9.598	1.00	0.00
ATOM	2585	CD2	TYR	154	-9.050	8.732	-8.663	1.00	0.00
ATOM	2586	HD2	TYR	154	-9.757	8.077	-8.152	1.00	0.00
ATOM	2587	C	TYR	154	-5.742	5.272	-7.650	1.00	0.00
ATOM	2588	O	TYR	154	-6.383	4.692	-6.768	1.00	0.00
ATOM	2589	N	PHE	155	-4.463	5.015	-7.911	1.00	0.00
ATOM	2590	H	PHE	155	-4.009	5.489	-8.678	1.00	0.00
ATOM	2591	CA	PHE	155	-3.703	4.007	-7.172	1.00	0.00
ATOM	2592	HA	PHE	155	-4.041	3.009	-7.452	1.00	0.00
ATOM	2593	CB	PHE	155	-2.213	4.124	-7.489	1.00	0.00
ATOM	2594	HB2	PHE	155	-2.027	4.368	-8.534	1.00	0.00
ATOM	2595	HB3	PHE	155	-1.793	4.903	-6.853	1.00	0.00
ATOM	2596	CG	PHE	155	-1.443	2.873	-7.198	1.00	0.00
ATOM	2597	CD1	PHE	155	-0.993	2.602	-5.918	1.00	0.00
ATOM	2598	HD1	PHE	155	-1.160	3.333	-5.127	1.00	0.00
ATOM	2599	CE1	PHE	155	-0.346	1.433	-5.641	1.00	0.00
ATOM	2600	HE1	PHE	155	0.002	1.227	-4.628	1.00	0.00
ATOM	2601	CZ	PHE	155	-0.132	0.507	-6.648	1.00	0.00
ATOM	2602	HZ	PHE	155	0.385	-0.427	-6.426	1.00	0.00
ATOM	2603	CE2	PHE	155	-0.570	0.764	-7.925	1.00	0.00
ATOM	2604	HE2	PHE	155	-0.403	0.038	-8.721	1.00	0.00
ATOM	2605	CD2	PHE	155	-1.221	1.942	-8.196	1.00	0.00
ATOM	2606	HD2	PHE	155	-1.569	2.152	-9.207	1.00	0.00
ATOM	2607	C	PHE	155	-3.967	4.141	-5.679	1.00	0.00
ATOM	2608	O	PHE	155	-3.771	5.204	-5.105	1.00	0.00
ATOM	2609	N	PRO	156	-4.362	3.040	-5.025	1.00	0.00
ATOM	2610	CD	PRO	156	-4.441	1.703	-5.642	1.00	0.00
ATOM	2611	HD2	PRO	156	-3.535	1.507	-6.216	1.00	0.00
ATOM	2612	HD3	PRO	156	-5.307	1.651	-6.301	1.00	0.00
ATOM	2613	CG	PRO	156	-4.575	0.795	-4.444	1.00	0.00
ATOM	2614	HG2	PRO	156	-3.591	0.520	-4.064	1.00	0.00
ATOM	2615	HG3	PRO	156	-5.125	-0.107	-4.711	1.00	0.00
ATOM	2616	CB	PRO	156	-5.318	1.589	-3.473	1.00	0.00
ATOM	2617	HB2	PRO	156	-5.288	1.260	-2.434	1.00	0.00
ATOM	2618	HB3	PRO	156	-6.353	1.622	-3.813	1.00	0.00
ATOM	2619	CA	PRO	156	-4.685	2.968	-3.598	1.00	0.00
ATOM	2620	HA	PRO	156	-5.468	3.713	-3.458	1.00	0.00
ATOM	2621	C	PRO	156	-3.587	3.193	-2.581	1.00	0.00
ATOM	2622	O	PRO	156	-3.489	2.458	-1.605	1.00	0.00
ATOM	2623	N	ASP	157	-2.849	4.286	-2.724	1.00	0.00
ATOM	2624	H	ASP	157	-3.028	4.931	-3.480	1.00	0.00
ATOM	2625	CA	ASP	157	-1.764	4.591	-1.796	1.00	0.00
ATOM	2626	HA	ASP	157	-1.887	4.033	-0.867	1.00	0.00
ATOM	2627	CB	ASP	157	-0.442	4.192	-2.430	1.00	0.00
ATOM	2628	HB2	ASP	157	0.329	4.267	-1.663	1.00	0.00
ATOM	2629	HB3	ASP	157	-0.529	3.156	-2.757	1.00	0.00
ATOM	2630	CG	ASP	157	-0.067	5.064	-3.611	1.00	0.00
ATOM	2631	OD1	ASP	157	-0.917	5.850	-4.097	1.00	0.00
ATOM	2632	OD2	ASP	157	1.095	4.957	-4.056	1.00	0.00
ATOM	2633	C	ASP	157	-1.704	6.071	-1.459	1.00	0.00
ATOM	2634	O	ASP	157	-0.638	6.605	-1.162	1.00	0.00
ATOM	2635	N	TRP	158	-2.845	6.734	-1.492	1.00	0.00

ATOM	2636	H	TRP	158	-3.716	6.269	-1.706	1.00	0.00
ATOM	2637	CA	TRP	158	-2.870	8.159	-1.255	1.00	0.00
ATOM	2638	HA	TRP	158	-1.858	8.555	-1.174	1.00	0.00
ATOM	2639	CB	TRP	158	-3.566	8.836	-2.433	1.00	0.00
ATOM	2640	HB2	TRP	158	-3.632	9.921	-2.353	1.00	0.00
ATOM	2641	HB3	TRP	158	-2.998	8.572	-3.325	1.00	0.00
ATOM	2642	CG	TRP	158	-4.965	8.336	-2.651	1.00	0.00
ATOM	2643	CD1	TRP	158	-5.364	7.342	-3.509	1.00	0.00
ATOM	2644	HD1	TRP	158	-4.602	6.916	-4.161	1.00	0.00
ATOM	2645	NE1	TRP	158	-6.704	7.091	-3.347	1.00	0.00
ATOM	2646	HE1	TRP	158	-7.238	6.399	-3.854	1.00	0.00
ATOM	2647	CE2	TRP	158	-7.202	7.936	-2.386	1.00	0.00
ATOM	2648	CZ2	TRP	158	-8.500	8.064	-1.880	1.00	0.00
ATOM	2649	HZ2	TRP	158	-9.280	7.413	-2.275	1.00	0.00
ATOM	2650	CH2	TRP	158	-8.709	9.008	-0.912	1.00	0.00
ATOM	2651	HH2	TRP	158	-9.708	9.132	-0.493	1.00	0.00
ATOM	2652	CZ3	TRP	158	-7.668	9.823	-0.442	1.00	0.00
ATOM	2653	HZ3	TRP	158	-7.848	10.572	0.329	1.00	0.00
ATOM	2654	CE3	TRP	158	-6.384	9.701	-0.941	1.00	0.00
ATOM	2655	HE3	TRP	158	-5.609	10.354	-0.539	1.00	0.00
ATOM	2656	CD2	TRP	158	-6.135	8.740	-1.932	1.00	0.00
ATOM	2657	C	TRP	158	-3.574	8.526	0.024	1.00	0.00
ATOM	2658	O	TRP	158	-3.234	9.535	0.657	1.00	0.00
ATOM	2659	N	GLN	159	-4.523	7.685	0.432	1.00	0.00
ATOM	2660	H	GLN	159	-4.785	6.897	-0.143	1.00	0.00
ATOM	2661	CA	GLN	159	-5.307	7.961	1.617	1.00	0.00
ATOM	2662	HA	GLN	159	-5.522	9.028	1.667	1.00	0.00
ATOM	2663	CB	GLN	159	-6.639	7.192	1.602	1.00	0.00
ATOM	2664	HB2	GLN	159	-7.094	7.327	0.621	1.00	0.00
ATOM	2665	HB3	GLN	159	-6.419	6.136	1.757	1.00	0.00
ATOM	2666	CG	GLN	159	-7.604	7.673	2.680	1.00	0.00
ATOM	2667	HG2	GLN	159	-7.119	7.495	3.640	1.00	0.00
ATOM	2668	HG3	GLN	159	-7.773	8.742	2.552	1.00	0.00
ATOM	2669	CD	GLN	159	-8.945	6.967	2.677	1.00	0.00
ATOM	2670	OE1	GLN	159	-9.316	6.405	1.537	1.00	0.00
ATOM	2671	NE2	GLN	159	-9.657	6.950	3.695	1.00	0.00
ATOM	2672	HE21	GLN	159	-10.548	6.475	3.677	1.00	0.00
ATOM	2673	HE22	GLN	159	-9.341	7.411	4.536	1.00	0.00
ATOM	2674	C	GLN	159	-4.582	7.755	2.923	1.00	0.00
ATOM	2675	O	GLN	159	-5.064	7.037	3.799	1.00	0.00
ATOM	2676	N	ASN	160	-3.458	8.438	3.097	1.00	0.00
ATOM	2677	H	ASN	160	-3.114	9.069	2.388	1.00	0.00
ATOM	2678	CA	ASN	160	-2.706	8.318	4.337	1.00	0.00
ATOM	2679	HA	ASN	160	-2.910	7.356	4.808	1.00	0.00
ATOM	2680	CB	ASN	160	-1.221	8.411	4.048	1.00	0.00
ATOM	2681	HB2	ASN	160	-0.944	9.426	3.764	1.00	0.00
ATOM	2682	HB3	ASN	160	-0.698	8.135	4.964	1.00	0.00
ATOM	2683	CG	ASN	160	-0.802	7.484	2.965	1.00	0.00
ATOM	2684	OD1	ASN	160	-1.055	6.284	3.040	1.00	0.00
ATOM	2685	ND2	ASN	160	-0.196	8.028	1.916	1.00	0.00
ATOM	2686	HD21	ASN	160	0.109	7.441	1.153	1.00	0.00
ATOM	2687	HD22	ASN	160	-0.043	9.026	1.887	1.00	0.00
ATOM	2688	C	ASN	160	-3.095	9.466	5.245	1.00	0.00
ATOM	2689	O	ASN	160	-3.272	10.597	4.763	1.00	0.00
ATOM	2690	N	TYR	161	-3.226	9.187	6.543	1.00	0.00
ATOM	2691	H	TYR	161	-3.132	8.233	6.861	1.00	0.00
ATOM	2692	CA	TYR	161	-3.563	10.213	7.525	1.00	0.00
ATOM	2693	HA	TYR	161	-3.830	11.139	7.017	1.00	0.00
ATOM	2694	CB	TYR	161	-4.745	9.766	8.373	1.00	0.00
ATOM	2695	HB2	TYR	161	-4.524	8.826	8.880	1.00	0.00
ATOM	2696	HB3	TYR	161	-4.896	10.551	9.114	1.00	0.00
ATOM	2697	CG	TYR	161	-5.995	9.608	7.547	1.00	0.00
ATOM	2698	CD1	TYR	161	-6.600	10.714	6.950	1.00	0.00
ATOM	2699	HD1	TYR	161	-6.184	11.704	7.136	1.00	0.00
ATOM	2700	CE1	TYR	161	-7.718	10.570	6.128	1.00	0.00
ATOM	2701	HE1	TYR	161	-8.189	11.443	5.677	1.00	0.00
ATOM	2702	CZ	TYR	161	-8.240	9.309	5.903	1.00	0.00
ATOM	2703	OH	TYR	161	-9.330	9.162	5.075	1.00	0.00
ATOM	2704	HH	TYR	161	-9.641	9.995	4.713	1.00	0.00
ATOM	2705	CE2	TYR	161	-7.661	8.195	6.489	1.00	0.00
ATOM	2706	HE2	TYR	161	-8.074	7.201	6.315	1.00	0.00
ATOM	2707	CD2	TYR	161	-6.544	8.351	7.306	1.00	0.00
ATOM	2708	HD2	TYR	161	-6.083	7.479	7.771	1.00	0.00
ATOM	2709	C	TYR	161	-2.340	10.503	8.384	1.00	0.00
ATOM	2710	O	TYR	161	-1.308	9.864	8.199	1.00	0.00
ATOM	2711	N	THR	162	-2.414	11.502	9.262	1.00	0.00
ATOM	2712	H	THR	162	-3.246	12.069	9.337	1.00	0.00

ATOM	2713	CA	THR	162	-1.280	11.823	10.120	1.00	0.00
ATOM	2714	HA	THR	162	-0.341	11.642	9.597	1.00	0.00
ATOM	2715	CB	THR	162	-1.294	13.285	10.620	1.00	0.00
ATOM	2716	HB	THR	162	-0.445	13.435	11.287	1.00	0.00
ATOM	2717	CG2	THR	162	-1.202	14.260	9.456	1.00	0.00
ATOM	2718	HG21	THR	162	-2.051	14.111	8.789	1.00	0.00
ATOM	2719	HG22	THR	162	-1.214	15.282	9.836	1.00	0.00
ATOM	2720	HG23	THR	162	-0.275	14.087	8.909	1.00	0.00
ATOM	2721	OG1	THR	162	-2.481	13.520	11.385	1.00	0.00
ATOM	2722	HG1	THR	162	-2.488	14.428	11.695	1.00	0.00
ATOM	2723	C	THR	162	-1.275	10.896	11.326	1.00	0.00
ATOM	2724	O	THR	162	-2.325	10.362	11.721	1.00	0.00
ATOM	2725	N	PRO	163	-0.103	10.742	11.968	1.00	0.00
ATOM	2726	CD	PRO	163	1.144	11.472	11.704	1.00	0.00
ATOM	2727	HD2	PRO	163	1.186	12.388	12.294	1.00	0.00
ATOM	2728	HD3	PRO	163	1.229	11.717	10.646	1.00	0.00
ATOM	2729	CG	PRO	163	2.141	10.480	12.131	1.00	0.00
ATOM	2730	HG2	PRO	163	3.118	10.937	12.288	1.00	0.00
ATOM	2731	HG3	PRO	163	2.232	9.669	11.408	1.00	0.00
ATOM	2732	CB	PRO	163	1.557	9.986	13.416	1.00	0.00
ATOM	2733	HB2	PRO	163	1.741	10.760	14.161	1.00	0.00
ATOM	2734	HB3	PRO	163	1.935	9.032	13.784	1.00	0.00
ATOM	2735	CA	PRO	163	0.065	9.881	13.137	1.00	0.00
ATOM	2736	HA	PRO	163	-0.295	8.880	12.896	1.00	0.00
ATOM	2737	C	PRO	163	-0.713	10.425	14.310	1.00	0.00
ATOM	2738	O	PRO	163	-0.736	11.640	14.537	1.00	0.00
ATOM	2739	N	GLY	164	-1.334	9.528	15.064	1.00	0.00
ATOM	2740	H	GLY	164	-1.294	8.540	14.856	1.00	0.00
ATOM	2741	CA	GLY	164	-2.094	9.955	16.220	1.00	0.00
ATOM	2742	HA2	GLY	164	-2.637	10.859	15.945	1.00	0.00
ATOM	2743	HA3	GLY	164	-2.805	9.164	16.461	1.00	0.00
ATOM	2744	C	GLY	164	-1.238	10.244	17.448	1.00	0.00
ATOM	2745	O	GLY	164	-0.026	10.482	17.351	1.00	0.00
ATOM	2746	N	PRO	165	-1.867	10.302	18.626	1.00	0.00
ATOM	2747	CD	PRO	165	-1.219	10.489	19.933	1.00	0.00
ATOM	2748	HD2	PRO	165	-0.592	11.380	19.913	1.00	0.00
ATOM	2749	HD3	PRO	165	-0.606	9.620	20.172	1.00	0.00
ATOM	2750	CG	PRO	165	-2.405	10.632	20.864	1.00	0.00
ATOM	2751	HG2	PRO	165	-2.734	11.670	20.914	1.00	0.00
ATOM	2752	HG3	PRO	165	-2.154	10.282	21.866	1.00	0.00
ATOM	2753	CB	PRO	165	-3.441	9.763	20.242	1.00	0.00
ATOM	2754	HB2	PRO	165	-4.405	10.107	20.618	1.00	0.00
ATOM	2755	HB3	PRO	165	-3.363	8.684	20.378	1.00	0.00
ATOM	2756	CA	PRO	165	-3.307	10.110	18.775	1.00	0.00
ATOM	2757	HA	PRO	165	-3.647	9.325	18.099	1.00	0.00
ATOM	2758	C	PRO	165	-4.016	11.416	18.434	1.00	0.00
ATOM	2759	O	PRO	165	-3.382	12.378	18.008	1.00	0.00
ATOM	2760	N	GLY	166	-5.315	11.474	18.685	1.00	0.00
ATOM	2761	H	GLY	166	-5.809	10.703	19.112	1.00	0.00
ATOM	2762	CA	GLY	166	-6.066	12.668	18.346	1.00	0.00
ATOM	2763	HA2	GLY	166	-6.901	12.796	19.035	1.00	0.00
ATOM	2764	HA3	GLY	166	-5.420	13.545	18.391	1.00	0.00
ATOM	2765	C	GLY	166	-6.608	12.525	16.934	1.00	0.00
ATOM	2766	O	GLY	166	-6.813	11.400	16.458	1.00	0.00
ATOM	2767	N	VAL	167	-6.874	13.650	16.273	1.00	0.00
ATOM	2768	H	VAL	167	-6.773	14.547	16.725	1.00	0.00
ATOM	2769	CA	VAL	167	-7.401	13.616	14.918	1.00	0.00
ATOM	2770	HA	VAL	167	-8.040	12.739	14.815	1.00	0.00
ATOM	2771	CB	VAL	167	-8.240	14.888	14.576	1.00	0.00
ATOM	2772	HB	VAL	167	-7.649	15.770	14.822	1.00	0.00
ATOM	2773	CG1	VAL	167	-8.610	14.923	13.116	1.00	0.00
ATOM	2774	HG11	VAL	167	-9.201	14.041	12.870	1.00	0.00
ATOM	2775	HG12	VAL	167	-9.193	15.820	12.910	1.00	0.00
ATOM	2776	HG13	VAL	167	-7.703	14.933	12.511	1.00	0.00
ATOM	2777	CG2	VAL	167	-9.508	14.893	15.378	1.00	0.00
ATOM	2778	HG21	VAL	167	-9.266	14.896	16.441	1.00	0.00
ATOM	2779	HG22	VAL	167	-10.089	15.783	15.135	1.00	0.00
ATOM	2780	HG23	VAL	167	-10.091	14.003	15.142	1.00	0.00
ATOM	2781	C	VAL	167	-6.243	13.430	13.948	1.00	0.00
ATOM	2782	O	VAL	167	-5.151	13.995	14.129	1.00	0.00
ATOM	2783	N	ARG	168	-6.488	12.586	12.950	1.00	0.00
ATOM	2784	H	ARG	168	-7.403	12.162	12.890	1.00	0.00
ATOM	2785	CA	ARG	168	-5.514	12.267	11.925	1.00	0.00
ATOM	2786	HA	ARG	168	-4.513	12.540	12.260	1.00	0.00
ATOM	2787	CB	ARG	168	-5.540	10.768	11.638	1.00	0.00
ATOM	2788	HB2	ARG	168	-6.333	10.592	10.911	1.00	0.00
ATOM	2789	HB3	ARG	168	-4.578	10.507	11.196	1.00	0.00

ATOM	2790	CG	ARG	168	-5.779	9.917	12.855	1.00	0.00
ATOM	2791	HG2	ARG	168	-6.818	10.043	13.158	1.00	0.00
ATOM	2792	HG3	ARG	168	-5.605	8.876	12.580	1.00	0.00
ATOM	2793	CD	ARG	168	-4.865	10.295	14.010	1.00	0.00
ATOM	2794	HD2	ARG	168	-3.824	10.118	13.739	1.00	0.00
ATOM	2795	HD3	ARG	168	-5.000	11.345	14.268	1.00	0.00
ATOM	2796	NE	ARG	168	-5.188	9.483	15.176	1.00	0.00
ATOM	2797	HE	ARG	168	-5.618	9.939	15.968	1.00	0.00
ATOM	2798	CZ	ARG	168	-4.869	8.200	15.281	1.00	0.00
ATOM	2799	NH1	ARG	168	-4.202	7.603	14.295	1.00	0.00
ATOM	2800	HH11	ARG	168	-3.943	8.130	13.474	1.00	0.00
ATOM	2801	HH12	ARG	168	-3.958	6.626	14.374	1.00	0.00
ATOM	2802	NH2	ARG	168	-5.290	7.493	16.322	1.00	0.00
ATOM	2803	HH21	ARG	168	-5.854	7.935	17.034	1.00	0.00
ATOM	2804	HH22	ARG	168	-5.045	6.516	16.398	1.00	0.00
ATOM	2805	C	ARG	168	-5.916	13.019	10.683	1.00	0.00
ATOM	2806	O	ARG	168	-6.991	12.782	10.137	1.00	0.00
ATOM	2807	N	TYR	169	-5.045	13.906	10.230	1.00	0.00
ATOM	2808	H	TYR	169	-4.184	14.068	10.733	1.00	0.00
ATOM	2809	CA	TYR	169	-5.321	14.717	9.062	1.00	0.00
ATOM	2810	HA	TYR	169	-6.398	14.787	8.909	1.00	0.00
ATOM	2811	CB	TYR	169	-4.758	16.134	9.243	1.00	0.00
ATOM	2812	HB2	TYR	169	-3.676	16.114	9.372	1.00	0.00
ATOM	2813	HB3	TYR	169	-5.004	16.659	8.320	1.00	0.00
ATOM	2814	CG	TYR	169	-5.386	16.844	10.403	1.00	0.00
ATOM	2815	CD1	TYR	169	-6.610	17.479	10.264	1.00	0.00
ATOM	2816	HD1	TYR	169	-7.079	17.516	9.281	1.00	0.00
ATOM	2817	CE1	TYR	169	-7.235	18.059	11.349	1.00	0.00
ATOM	2818	HE1	TYR	169	-8.209	18.534	11.234	1.00	0.00
ATOM	2819	CZ	TYR	169	-6.628	18.017	12.594	1.00	0.00
ATOM	2820	OH	TYR	169	-7.248	18.623	13.671	1.00	0.00
ATOM	2821	HH	TYR	169	-8.083	19.036	13.440	1.00	0.00
ATOM	2822	CE2	TYR	169	-5.403	17.393	12.758	1.00	0.00
ATOM	2823	HE2	TYR	169	-4.922	17.355	13.736	1.00	0.00
ATOM	2824	CD2	TYR	169	-4.791	16.815	11.666	1.00	0.00
ATOM	2825	HD2	TYR	169	-3.825	16.323	11.780	1.00	0.00
ATOM	2826	C	TYR	169	-4.781	14.102	7.798	1.00	0.00
ATOM	2827	O	TYR	169	-3.661	13.599	7.783	1.00	0.00
ATOM	2828	N	PRO	170	-5.554	14.181	6.701	1.00	0.00
ATOM	2829	CD	PRO	170	-6.895	14.775	6.552	1.00	0.00
ATOM	2830	HD2	PRO	170	-6.937	15.730	7.075	1.00	0.00
ATOM	2831	HD3	PRO	170	-7.646	14.102	6.966	1.00	0.00
ATOM	2832	CG	PRO	170	-7.019	14.926	5.072	1.00	0.00
ATOM	2833	HG2	PRO	170	-6.518	15.829	4.726	1.00	0.00
ATOM	2834	HG3	PRO	170	-8.065	14.951	4.767	1.00	0.00
ATOM	2835	CB	PRO	170	-6.353	13.714	4.566	1.00	0.00
ATOM	2836	HB2	PRO	170	-6.063	13.848	3.524	1.00	0.00
ATOM	2837	HB3	PRO	170	-6.951	12.808	4.663	1.00	0.00
ATOM	2838	CA	PRO	170	-5.105	13.611	5.443	1.00	0.00
ATOM	2839	HA	PRO	170	-4.838	12.569	5.619	1.00	0.00
ATOM	2840	C	PRO	170	-3.906	14.352	4.873	1.00	0.00
ATOM	2841	O	PRO	170	-3.815	15.587	4.942	1.00	0.00
ATOM	2842	N	LEU	171	-2.953	13.579	4.364	1.00	0.00
ATOM	2843	H	LEU	171	-3.038	12.573	4.396	1.00	0.00
ATOM	2844	CA	LEU	171	-1.757	14.151	3.767	1.00	0.00
ATOM	2845	HA	LEU	171	-1.393	14.972	4.385	1.00	0.00
ATOM	2846	CB	LEU	171	-0.654	13.096	3.658	1.00	0.00
ATOM	2847	HB2	LEU	171	-1.023	12.411	2.894	1.00	0.00
ATOM	2848	HB3	LEU	171	0.188	13.664	3.261	1.00	0.00
ATOM	2849	CG	LEU	171	-0.199	12.298	4.879	1.00	0.00
ATOM	2850	HG	LEU	171	-0.980	11.609	5.201	1.00	0.00
ATOM	2851	CD1	LEU	171	1.023	11.516	4.469	1.00	0.00
ATOM	2852	HD11	LEU	171	1.805	12.204	4.148	1.00	0.00
ATOM	2853	HD12	LEU	171	1.381	10.930	5.316	1.00	0.00
ATOM	2854	HD13	LEU	171	0.768	10.847	3.647	1.00	0.00
ATOM	2855	CD2	LEU	171	0.153	13.198	6.016	1.00	0.00
ATOM	2856	HD21	LEU	171	-0.719	13.790	6.295	1.00	0.00
ATOM	2857	HD22	LEU	171	0.473	12.599	6.869	1.00	0.00
ATOM	2858	HD23	LEU	171	0.963	13.863	5.716	1.00	0.00
ATOM	2859	C	LEU	171	-2.090	14.690	2.378	1.00	0.00
ATOM	2860	O	LEU	171	-1.456	15.631	1.897	1.00	0.00
ATOM	2861	N	THR	172	-3.057	14.059	1.720	1.00	0.00
ATOM	2862	H	THR	172	-3.529	13.276	2.151	1.00	0.00
ATOM	2863	CA	THR	172	-3.487	14.480	0.392	1.00	0.00
ATOM	2864	HA	THR	172	-2.613	14.646	-0.237	1.00	0.00
ATOM	2865	CB	THR	172	-4.382	13.410	-0.277	1.00	0.00
ATOM	2866	HB	THR	172	-5.281	13.280	0.325	1.00	0.00

ATOM	2867	CG2	THR	172	-4.772	13.828	-1.688	1.00	0.00
ATOM	2868	HG21	THR	172	-3.873	13.957	-2.290	1.00	0.00
ATOM	2869	HG22	THR	172	-5.401	13.058	-2.135	1.00	0.00
ATOM	2870	HG23	THR	172	-5.322	14.768	-1.650	1.00	0.00
ATOM	2871	OG1	THR	172	-3.674	12.170	-0.343	1.00	0.00
ATOM	2872	HG1	THR	172	-4.229	11.506	-0.758	1.00	0.00
ATOM	2873	C	THR	172	-4.300	15.752	0.569	1.00	0.00
ATOM	2874	O	THR	172	-5.405	15.716	1.088	1.00	0.00
ATOM	2875	N	PHE	173	-3.720	16.884	0.207	1.00	0.00
ATOM	2876	H	PHE	173	-2.797	16.875	-0.203	1.00	0.00
ATOM	2877	CA	PHE	173	-4.410	18.157	0.322	1.00	0.00
ATOM	2878	HA	PHE	173	-4.715	18.326	1.355	1.00	0.00
ATOM	2879	CB	PHE	173	-3.479	19.294	-0.106	1.00	0.00
ATOM	2880	HB2	PHE	173	-2.570	19.312	0.496	1.00	0.00
ATOM	2881	HB3	PHE	173	-3.217	19.152	-1.154	1.00	0.00
ATOM	2882	CG	PHE	173	-4.092	20.657	0.002	1.00	0.00
ATOM	2883	CD1	PHE	173	-4.950	20.971	1.054	1.00	0.00
ATOM	2884	HD1	PHE	173	-5.197	20.198	1.783	1.00	0.00
ATOM	2885	CE1	PHE	173	-5.485	22.237	1.182	1.00	0.00
ATOM	2886	HE1	PHE	173	-6.154	22.470	2.010	1.00	0.00
ATOM	2887	CZ	PHE	173	-5.168	23.212	0.253	1.00	0.00
ATOM	2888	HZ	PHE	173	-5.586	24.214	0.349	1.00	0.00
ATOM	2889	CE2	PHE	173	-4.313	22.911	-0.807	1.00	0.00
ATOM	2890	HE2	PHE	173	-4.062	23.677	-1.540	1.00	0.00
ATOM	2891	CD2	PHE	173	-3.782	21.636	-0.927	1.00	0.00
ATOM	2892	HD2	PHE	173	-3.116	21.399	-1.756	1.00	0.00
ATOM	2893	C	PHE	173	-5.561	18.090	-0.652	1.00	0.00
ATOM	2894	O	PHE	173	-5.336	17.835	-1.835	1.00	0.00
ATOM	2895	N	GLY	174	-6.776	18.316	-0.166	1.00	0.00
ATOM	2896	H	GLY	174	-6.927	18.517	0.812	1.00	0.00
ATOM	2897	CA	GLY	174	-7.923	18.277	-1.042	1.00	0.00
ATOM	2898	HA2	GLY	174	-8.453	19.225	-0.959	1.00	0.00
ATOM	2899	HA3	GLY	174	-7.572	18.145	-2.065	1.00	0.00
ATOM	2900	C	GLY	174	-8.869	17.155	-0.700	1.00	0.00
ATOM	2901	O	GLY	174	-9.982	17.108	-1.219	1.00	0.00
ATOM	2902	N	TRP	175	-8.401	16.202	0.096	1.00	0.00
ATOM	2903	H	TRP	175	-7.452	16.253	0.437	1.00	0.00
ATOM	2904	CA	TRP	175	-9.236	15.081	0.533	1.00	0.00
ATOM	2905	HA	TRP	175	-9.920	14.798	-0.267	1.00	0.00
ATOM	2906	CB	TRP	175	-8.360	13.856	0.891	1.00	0.00
ATOM	2907	HB2	TRP	175	-7.925	13.436	-0.016	1.00	0.00
ATOM	2908	HB3	TRP	175	-7.562	14.165	1.566	1.00	0.00
ATOM	2909	CG	TRP	175	-9.096	12.730	1.579	1.00	0.00
ATOM	2910	CD1	TRP	175	-8.908	12.292	2.864	1.00	0.00
ATOM	2911	HD1	TRP	175	-8.145	12.802	3.452	1.00	0.00
ATOM	2912	NE1	TRP	175	-9.767	11.253	3.141	1.00	0.00
ATOM	2913	HE1	TRP	175	-9.827	10.761	4.021	1.00	0.00
ATOM	2914	CE2	TRP	175	-10.527	10.993	2.030	1.00	0.00
ATOM	2915	CZ2	TRP	175	-11.525	10.033	1.826	1.00	0.00
ATOM	2916	HZ2	TRP	175	-11.774	9.364	2.650	1.00	0.00
ATOM	2917	CH2	TRP	175	-12.132	9.993	0.594	1.00	0.00
ATOM	2918	HH2	TRP	175	-12.912	9.256	0.402	1.00	0.00
ATOM	2919	CZ3	TRP	175	-11.768	10.889	-0.436	1.00	0.00
ATOM	2920	HZ3	TRP	175	-12.252	10.854	-1.412	1.00	0.00
ATOM	2921	CE3	TRP	175	-10.768	11.854	-0.230	1.00	0.00
ATOM	2922	HE3	TRP	175	-10.519	12.526	-1.051	1.00	0.00
ATOM	2923	CD2	TRP	175	-10.133	11.908	1.023	1.00	0.00
ATOM	2924	O	TRP	175	-9.899	15.679	1.769	1.00	0.00
ATOM	2925	C	TRP	175	-9.209	16.062	2.728	1.00	0.00
ATOM	2926	N	CYS	176	-11.219	15.819	1.733	1.00	0.00
ATOM	2927	H	CYS	176	-11.733	15.607	0.890	1.00	0.00
ATOM	2928	CA	CYS	176	-11.940	16.444	2.850	1.00	0.00
ATOM	2929	HA	CYS	176	-11.269	17.112	3.390	1.00	0.00
ATOM	2930	CB	CYS	176	-13.137	17.257	2.341	1.00	0.00
ATOM	2931	HB2	CYS	176	-13.839	16.623	1.800	1.00	0.00
ATOM	2932	HB3	CYS	176	-13.654	17.750	3.164	1.00	0.00
ATOM	2933	SG	CYS	176	-12.658	18.563	1.197	1.00	0.00
ATOM	2934	HG	CYS	176	-13.889	19.021	0.986	1.00	0.00
ATOM	2935	C	CYS	176	-12.366	15.553	3.988	1.00	0.00
ATOM	2936	O	CYS	176	-13.320	15.871	4.687	1.00	0.00
ATOM	2937	N	TYR	177	-11.693	14.423	4.168	1.00	0.00
ATOM	2938	H	TYR	177	-10.968	14.139	3.525	1.00	0.00
ATOM	2939	CA	TYR	177	-12.012	13.539	5.282	1.00	0.00
ATOM	2940	HA	TYR	177	-12.874	13.931	5.822	1.00	0.00
ATOM	2941	CB	TYR	177	-12.339	12.148	4.798	1.00	0.00
ATOM	2942	HB2	TYR	177	-11.655	11.855	4.002	1.00	0.00
ATOM	2943	HB3	TYR	177	-12.200	11.491	5.657	1.00	0.00

ATOM	2944	CG	TYR	177	-13.738	12.038	4.313	1.00	0.00
ATOM	2945	CD1	TYR	177	-14.760	11.723	5.188	1.00	0.00
ATOM	2946	HD1	TYR	177	-14.515	11.505	6.228	1.00	0.00
ATOM	2947	CE1	TYR	177	-16.084	11.681	4.762	1.00	0.00
ATOM	2948	HE1	TYR	177	-16.884	11.412	5.452	1.00	0.00
ATOM	2949	CZ	TYR	177	-16.375	11.953	3.443	1.00	0.00
ATOM	2950	OH	TYR	177	-17.677	11.952	3.026	1.00	0.00
ATOM	2951	HH	TYR	177	-18.297	11.751	3.731	1.00	0.00
ATOM	2952	CE2	TYR	177	-15.365	12.258	2.546	1.00	0.00
ATOM	2953	HE2	TYR	177	-15.594	12.462	1.500	1.00	0.00
ATOM	2954	CD2	TYR	177	-14.053	12.302	2.990	1.00	0.00
ATOM	2955	HD2	TYR	177	-13.250	12.547	2.295	1.00	0.00
ATOM	2956	C	TYR	177	-10.857	13.481	6.247	1.00	0.00
ATOM	2957	O	TYR	177	-9.702	13.429	5.836	1.00	0.00
ATOM	2958	N	LYS	178	-11.173	13.577	7.528	1.00	0.00
ATOM	2959	H	LYS	178	-12.145	13.665	7.788	1.00	0.00
ATOM	2960	CA	LYS	178	-10.178	13.511	8.590	1.00	0.00
ATOM	2961	HA	LYS	178	-9.188	13.366	8.158	1.00	0.00
ATOM	2962	CB	LYS	178	-10.172	14.806	9.404	1.00	0.00
ATOM	2963	HB2	LYS	178	-9.430	14.705	10.196	1.00	0.00
ATOM	2964	HB3	LYS	178	-9.885	15.622	8.741	1.00	0.00
ATOM	2965	CG	LYS	178	-11.526	15.105	10.016	1.00	0.00
ATOM	2966	HG2	LYS	178	-12.162	15.506	9.227	1.00	0.00
ATOM	2967	HG3	LYS	178	-11.941	14.162	10.372	1.00	0.00
ATOM	2968	CD	LYS	178	-11.460	16.098	11.169	1.00	0.00
ATOM	2969	HD2	LYS	178	-12.443	16.128	11.640	1.00	0.00
ATOM	2970	HD3	LYS	178	-10.726	15.729	11.886	1.00	0.00
ATOM	2971	CE	LYS	178	-11.073	17.488	10.722	1.00	0.00
ATOM	2972	HE2	LYS	178	-10.010	17.495	10.481	1.00	0.00
ATOM	2973	HE3	LYS	178	-11.649	17.743	9.833	1.00	0.00
ATOM	2974	NZ	LYS	178	-11.346	18.492	11.797	1.00	0.00
ATOM	2975	HZ1	LYS	178	-10.812	18.256	12.621	1.00	0.00
ATOM	2976	HZ2	LYS	178	-11.079	19.411	11.475	1.00	0.00
ATOM	2977	HZ3	LYS	178	-12.331	18.486	12.021	1.00	0.00
ATOM	2978	C	LYS	178	-10.650	12.354	9.470	1.00	0.00
ATOM	2979	O	LYS	178	-11.793	11.890	9.324	1.00	0.00
ATOM	2980	N	LEU	179	-9.776	11.864	10.347	1.00	0.00
ATOM	2981	H	LEU	179	-8.829	12.214	10.379	1.00	0.00
ATOM	2982	CA	LEU	179	-10.140	10.769	11.245	1.00	0.00
ATOM	2983	HA	LEU	179	-11.112	10.368	10.957	1.00	0.00
ATOM	2984	CB	LEU	179	-9.105	9.638	11.181	1.00	0.00
ATOM	2985	HB2	LEU	179	-8.138	10.118	11.335	1.00	0.00
ATOM	2986	HB3	LEU	179	-9.310	8.960	12.010	1.00	0.00
ATOM	2987	CG	LEU	179	-9.079	8.847	9.868	1.00	0.00
ATOM	2988	HG	LEU	179	-8.861	9.512	9.033	1.00	0.00
ATOM	2989	CD1	LEU	179	-8.011	7.812	9.970	1.00	0.00
ATOM	2990	HD11	LEU	179	-8.229	7.145	10.805	1.00	0.00
ATOM	2991	HD12	LEU	179	-7.974	7.235	9.046	1.00	0.00
ATOM	2992	HD13	LEU	179	-7.049	8.297	10.135	1.00	0.00
ATOM	2993	CD2	LEU	179	-10.424	8.185	9.582	1.00	0.00
ATOM	2994	HD21	LEU	179	-11.197	8.949	9.507	1.00	0.00
ATOM	2995	HD22	LEU	179	-10.366	7.634	8.644	1.00	0.00
ATOM	2996	HD23	LEU	179	-10.671	7.498	10.392	1.00	0.00
ATOM	2997	C	LEU	179	-10.270	11.316	12.655	1.00	0.00
ATOM	2998	O	LEU	179	-9.307	11.843	13.216	1.00	0.00
ATOM	2999	N	VAL	180	-11.469	11.223	13.218	1.00	0.00
ATOM	3000	H	VAL	180	-12.255	10.826	12.723	1.00	0.00
ATOM	3001	CA	VAL	180	-11.695	11.763	14.552	1.00	0.00
ATOM	3002	HA	VAL	180	-10.779	12.210	14.939	1.00	0.00
ATOM	3003	CB	VAL	180	-12.809	12.840	14.548	1.00	0.00
ATOM	3004	HB	VAL	180	-13.739	12.390	14.200	1.00	0.00
ATOM	3005	CG1	VAL	180	-13.009	13.395	15.949	1.00	0.00
ATOM	3006	HG11	VAL	180	-12.080	13.845	16.298	1.00	0.00
ATOM	3007	HG12	VAL	180	-13.794	14.150	15.933	1.00	0.00
ATOM	3008	HG13	VAL	180	-13.297	12.587	16.623	1.00	0.00
ATOM	3009	CG2	VAL	180	-12.450	13.969	13.600	1.00	0.00
ATOM	3010	HG21	VAL	180	-12.335	13.574	12.591	1.00	0.00
ATOM	3011	HG22	VAL	180	-13.243	14.717	13.609	1.00	0.00
ATOM	3012	HG23	VAL	180	-11.514	14.428	13.919	1.00	0.00
ATOM	3013	C	VAL	180	-12.043	10.700	15.571	1.00	0.00
ATOM	3014	O	VAL	180	-13.040	9.989	15.421	1.00	0.00
ATOM	3015	N	PRO	181	-11.223	10.583	16.631	1.00	0.00
ATOM	3016	CD	PRO	181	-10.066	11.434	16.948	1.00	0.00
ATOM	3017	HD2	PRO	181	-10.231	12.447	16.581	1.00	0.00
ATOM	3018	HD3	PRO	181	-9.162	11.026	16.495	1.00	0.00
ATOM	3019	CG	PRO	181	-10.037	11.362	18.436	1.00	0.00
ATOM	3020	HG2	PRO	181	-10.802	11.998	18.881	1.00	0.00

ATOM	3021	HG3	PRO	181	-9.059	11.641	18.829	1.00	0.00
ATOM	3022	CB	PRO	181	-10.316	9.927	18.683	1.00	0.00
ATOM	3023	HB2	PRO	181	-10.681	9.818	19.704	1.00	0.00
ATOM	3024	HB3	PRO	181	-9.474	9.253	18.526	1.00	0.00
ATOM	3025	CA	PRO	181	-11.437	9.603	17.692	1.00	0.00
ATOM	3026	HA	PRO	181	-11.342	8.602	17.272	1.00	0.00
ATOM	3027	C	PRO	181	-12.822	9.766	18.307	1.00	0.00
ATOM	3028	O	PRO	181	-13.163	10.843	18.798	1.00	0.00
ATOM	3029	N	VAL	182	-13.628	8.710	18.198	1.00	0.00
ATOM	3030	H	VAL	182	-13.255	7.887	17.747	1.00	0.00
ATOM	3031	CA	VAL	182	-14.992	8.657	18.716	1.00	0.00
ATOM	3032	HA	VAL	182	-15.017	9.131	19.697	1.00	0.00
ATOM	3033	CB	VAL	182	-16.008	9.390	17.780	1.00	0.00
ATOM	3034	HB	VAL	182	-15.762	10.451	17.736	1.00	0.00
ATOM	3035	CG1	VAL	182	-15.931	8.792	16.379	1.00	0.00
ATOM	3036	HG11	VAL	182	-16.177	7.731	16.422	1.00	0.00
ATOM	3037	HG12	VAL	182	-16.639	9.302	15.726	1.00	0.00
ATOM	3038	HG13	VAL	182	-14.922	8.914	15.986	1.00	0.00
ATOM	3039	CG2	VAL	182	-17.420	9.219	18.329	1.00	0.00
ATOM	3040	HG21	VAL	182	-17.475	9.646	19.330	1.00	0.00
ATOM	3041	HG22	VAL	182	-18.128	9.730	17.677	1.00	0.00
ATOM	3042	HG23	VAL	182	-17.667	8.158	18.373	1.00	0.00
ATOM	3043	C	VAL	182	-15.401	7.189	18.788	1.00	0.00
ATOM	3044	O	VAL	182	-15.774	6.582	17.774	1.00	0.00
ATOM	3045	OXT	VAL	182	-15.380	6.588	19.860	1.00	0.00
TER									
ATOM	3046	N	ARG	183	-4.530	2.310	20.879	1.00	0.00
ATOM	3047	H1	ARG	183	-5.140	2.618	21.623	1.00	0.00
ATOM	3048	H2	ARG	183	-3.712	2.902	20.864	1.00	0.00
ATOM	3049	H3	ARG	183	-4.426	1.307	20.939	1.00	0.00
ATOM	3050	CA	ARG	183	-5.207	2.553	19.607	1.00	0.00
ATOM	3051	HA	ARG	183	-4.610	3.229	18.995	1.00	0.00
ATOM	3052	CB	ARG	183	-5.400	1.237	18.839	1.00	0.00
ATOM	3053	HB2	ARG	183	-4.427	0.792	18.629	1.00	0.00
ATOM	3054	HB3	ARG	183	-5.991	0.547	19.442	1.00	0.00
ATOM	3055	CG	ARG	183	-6.126	1.516	17.527	1.00	0.00
ATOM	3056	HG2	ARG	183	-7.099	1.959	17.737	1.00	0.00
ATOM	3057	HG3	ARG	183	-5.535	2.205	16.924	1.00	0.00
ATOM	3058	CD	ARG	183	-6.317	0.209	16.764	1.00	0.00
ATOM	3059	HD2	ARG	183	-5.344	-0.235	16.553	1.00	0.00
ATOM	3060	HD3	ARG	183	-6.908	-0.481	17.367	1.00	0.00
ATOM	3061	NE	ARG	183	-7.020	0.441	15.483	1.00	0.00
ATOM	3062	HE	ARG	183	-7.291	1.384	15.246	1.00	0.00
ATOM	3063	CZ	ARG	183	-7.310	-0.536	14.629	1.00	0.00
ATOM	3064	NH1	ARG	183	-6.986	-1.803	14.871	1.00	0.00
ATOM	3065	HH11	ARG	183	-6.505	-2.044	15.726	1.00	0.00
ATOM	3066	HH12	ARG	183	-7.223	-2.519	14.199	1.00	0.00
ATOM	3067	NH2	ARG	183	-7.945	-0.215	13.505	1.00	0.00
ATOM	3068	HH21	ARG	183	-8.191	0.748	13.325	1.00	0.00
ATOM	3069	HH22	ARG	183	-8.179	-0.936	12.837	1.00	0.00
ATOM	3070	C	ARG	183	-6.563	3.204	19.862	1.00	0.00
ATOM	3071	O	ARG	183	-7.387	2.673	20.620	1.00	0.00
ATOM	3072	N	GLU	184	-6.788	4.360	19.245	1.00	0.00
ATOM	3073	H	GLU	184	-6.098	4.755	18.622	1.00	0.00
ATOM	3074	CA	GLU	184	-8.049	5.071	19.420	1.00	0.00
ATOM	3075	HA	GLU	184	-8.430	4.898	20.427	1.00	0.00
ATOM	3076	CB	GLU	184	-7.857	6.576	19.221	1.00	0.00
ATOM	3077	HB2	GLU	184	-7.700	6.712	18.151	1.00	0.00
ATOM	3078	HB3	GLU	184	-8.804	7.032	19.510	1.00	0.00
ATOM	3079	CG	GLU	184	-6.727	7.233	19.984	1.00	0.00
ATOM	3080	HG2	GLU	184	-6.921	7.154	21.054	1.00	0.00
ATOM	3081	HG3	GLU	184	-5.810	6.696	19.741	1.00	0.00
ATOM	3082	CD	GLU	184	-6.573	8.698	19.604	1.00	0.00
ATOM	3083	OE1	GLU	184	-6.180	8.968	18.453	1.00	0.00
ATOM	3084	OE2	GLU	184	-6.860	9.585	20.439	1.00	0.00
ATOM	3085	C	GLU	184	-9.054	4.604	18.379	1.00	0.00
ATOM	3086	O	GLU	184	-8.681	4.253	17.257	1.00	0.00
ATOM	3087	N	VAL	185	-10.323	4.582	18.756	1.00	0.00
ATOM	3088	H	VAL	185	-10.595	4.879	19.682	1.00	0.00
ATOM	3089	CA	VAL	185	-11.367	4.222	17.815	1.00	0.00
ATOM	3090	HA	VAL	185	-11.049	3.391	17.186	1.00	0.00
ATOM	3091	CB	VAL	185	-12.668	3.829	18.524	1.00	0.00
ATOM	3092	HB	VAL	185	-12.987	4.651	19.165	1.00	0.00
ATOM	3093	CG1	VAL	185	-13.755	3.530	17.505	1.00	0.00
ATOM	3094	HG11	VAL	185	-13.437	2.707	16.865	1.00	0.00
ATOM	3095	HG12	VAL	185	-14.673	3.252	18.023	1.00	0.00
ATOM	3096	HG13	VAL	185	-13.936	4.415	16.896	1.00	0.00

ATOM	3097	CG2	VAL	185	-12.430	2.625	19.413	1.00	0.00
ATOM	3098	HG21	VAL	185	-11.674	2.868	20.160	1.00	0.00
ATOM	3099	HG22	VAL	185	-13.359	2.352	19.913	1.00	0.00
ATOM	3100	HG23	VAL	185	-12.085	1.787	18.807	1.00	0.00
ATOM	3101	C	VAL	185	-11.598	5.535	17.085	1.00	0.00
ATOM	3102	O	VAL	185	-11.896	6.548	17.722	1.00	0.00
ATOM	3103	N	LEU	186	-11.417	5.520	15.766	1.00	0.00
ATOM	3104	H	LEU	186	-11.149	4.650	15.329	1.00	0.00
ATOM	3105	CA	LEU	186	-11.575	6.700	14.921	1.00	0.00
ATOM	3106	HA	LEU	186	-11.673	7.594	15.537	1.00	0.00
ATOM	3107	CB	LEU	186	-10.346	6.857	14.022	1.00	0.00
ATOM	3108	HB2	LEU	186	-10.433	6.020	13.329	1.00	0.00
ATOM	3109	HB3	LEU	186	-10.440	7.794	13.473	1.00	0.00
ATOM	3110	CG	LEU	186	-8.983	6.806	14.713	1.00	0.00
ATOM	3111	HG	LEU	186	-8.938	5.922	15.349	1.00	0.00
ATOM	3112	CD1	LEU	186	-7.880	6.743	13.686	1.00	0.00
ATOM	3113	HD11	LEU	186	-7.924	7.627	13.050	1.00	0.00
ATOM	3114	HD12	LEU	186	-6.915	6.707	14.191	1.00	0.00
ATOM	3115	HD13	LEU	186	-8.003	5.849	13.074	1.00	0.00
ATOM	3116	CD2	LEU	186	-8.810	8.001	15.633	1.00	0.00
ATOM	3117	HD21	LEU	186	-9.592	7.992	16.392	1.00	0.00
ATOM	3118	HD22	LEU	186	-7.835	7.949	16.117	1.00	0.00
ATOM	3119	HD23	LEU	186	-8.878	8.920	15.052	1.00	0.00
ATOM	3120	C	LEU	186	-12.810	6.603	14.043	1.00	0.00
ATOM	3121	O	LEU	186	-13.250	5.510	13.704	1.00	0.00
ATOM	3122	N	GLU	187	-13.352	7.761	13.676	1.00	0.00
ATOM	3123	H	GLU	187	-12.901	8.611	13.983	1.00	0.00
ATOM	3124	CA	GLU	187	-14.517	7.872	12.801	1.00	0.00
ATOM	3125	HA	GLU	187	-14.813	6.879	12.462	1.00	0.00
ATOM	3126	CB	GLU	187	-15.691	8.506	13.529	1.00	0.00
ATOM	3127	HB2	GLU	187	-15.299	9.391	14.030	1.00	0.00
ATOM	3128	HB3	GLU	187	-16.401	8.809	12.759	1.00	0.00
ATOM	3129	CG	GLU	187	-16.384	7.632	14.531	1.00	0.00
ATOM	3130	HG2	GLU	187	-16.291	6.584	14.246	1.00	0.00
ATOM	3131	HG3	GLU	187	-15.876	7.795	15.482	1.00	0.00
ATOM	3132	CD	GLU	187	-17.856	7.990	14.675	1.00	0.00
ATOM	3133	OE1	GLU	187	-18.254	9.091	14.229	1.00	0.00
ATOM	3134	OE2	GLU	187	-18.630	7.151	15.192	1.00	0.00
ATOM	3135	C	GLU	187	-14.150	8.807	11.661	1.00	0.00
ATOM	3136	O	GLU	187	-13.475	9.822	11.884	1.00	0.00
ATOM	3137	N	TRP	188	-14.581	8.470	10.451	1.00	0.00
ATOM	3138	H	TRP	188	-15.146	7.642	10.328	1.00	0.00
ATOM	3139	CA	TRP	188	-14.314	9.304	9.285	1.00	0.00
ATOM	3140	HA	TRP	188	-13.253	9.551	9.241	1.00	0.00
ATOM	3141	CB	TRP	188	-14.694	8.569	8.014	1.00	0.00
ATOM	3142	HB2	TRP	188	-15.334	7.790	8.429	1.00	0.00
ATOM	3143	HB3	TRP	188	-15.252	9.139	7.271	1.00	0.00
ATOM	3144	CG	TRP	188	-13.588	7.870	7.278	1.00	0.00
ATOM	3145	CD1	TRP	188	-12.621	8.447	6.498	1.00	0.00
ATOM	3146	HD1	TRP	188	-12.541	9.533	6.540	1.00	0.00
ATOM	3147	NE1	TRP	188	-11.932	7.481	5.801	1.00	0.00
ATOM	3148	HE1	TRP	188	-11.184	7.650	5.143	1.00	0.00
ATOM	3149	CE2	TRP	188	-12.429	6.249	6.143	1.00	0.00
ATOM	3150	CZ2	TRP	188	-12.059	4.970	5.707	1.00	0.00
ATOM	3151	HZ2	TRP	188	-11.252	4.879	4.980	1.00	0.00
ATOM	3152	CH2	TRP	188	-12.746	3.900	6.231	1.00	0.00
ATOM	3153	HH2	TRP	188	-12.486	2.890	5.915	1.00	0.00
ATOM	3154	CZ3	TRP	188	-13.777	4.076	7.166	1.00	0.00
ATOM	3155	HZ3	TRP	188	-14.313	3.219	7.575	1.00	0.00
ATOM	3156	CE3	TRP	188	-14.145	5.339	7.597	1.00	0.00
ATOM	3157	HE3	TRP	188	-14.962	5.421	8.314	1.00	0.00
ATOM	3158	CD2	TRP	188	-13.466	6.454	7.081	1.00	0.00
ATOM	3159	C	TRP	188	-15.208	10.528	9.401	1.00	0.00
ATOM	3160	O	TRP	188	-16.438	10.399	9.445	1.00	0.00
ATOM	3161	N	ARG	189	-14.600	11.713	9.424	1.00	0.00
ATOM	3162	H	ARG	189	-13.592	11.755	9.388	1.00	0.00
ATOM	3163	CA	ARG	189	-15.344	12.970	9.549	1.00	0.00
ATOM	3164	HA	ARG	189	-16.413	12.776	9.459	1.00	0.00
ATOM	3165	CB	ARG	189	-15.077	13.620	10.910	1.00	0.00
ATOM	3166	HB2	ARG	189	-14.003	13.791	10.976	1.00	0.00
ATOM	3167	HB3	ARG	189	-15.598	14.577	10.914	1.00	0.00
ATOM	3168	CG	ARG	189	-15.533	12.789	12.104	1.00	0.00
ATOM	3169	HG2	ARG	189	-15.009	11.834	12.066	1.00	0.00
ATOM	3170	HG3	ARG	189	-15.249	13.323	13.011	1.00	0.00
ATOM	3171	CD	ARG	189	-17.055	12.540	12.110	1.00	0.00
ATOM	3172	HD2	ARG	189	-17.569	13.499	12.053	1.00	0.00
ATOM	3173	HD3	ARG	189	-17.316	11.936	11.241	1.00	0.00

ATOM	3174	NE	ARG	189	-17.499	11.841	13.318	1.00	0.00
ATOM	3175	HE	ARG	189	-18.006	10.977	13.187	1.00	0.00
ATOM	3176	CZ	ARG	189	-17.303	12.282	14.565	1.00	0.00
ATOM	3177	NH1	ARG	189	-16.677	13.434	14.787	1.00	0.00
ATOM	3178	HH11	ARG	189	-16.345	13.983	14.007	1.00	0.00
ATOM	3179	HH12	ARG	189	-16.536	13.754	15.735	1.00	0.00
ATOM	3180	NH2	ARG	189	-17.707	11.558	15.602	1.00	0.00
ATOM	3181	HH21	ARG	189	-18.164	10.671	15.447	1.00	0.00
ATOM	3182	HH22	ARG	189	-17.555	11.898	16.541	1.00	0.00
ATOM	3183	C	ARG	189	-15.001	13.953	8.455	1.00	0.00
ATOM	3184	O	ARG	189	-13.861	14.375	8.325	1.00	0.00
ATOM	3185	N	PHE	190	-16.009	14.299	7.664	1.00	0.00
ATOM	3186	H	PHE	190	-16.919	13.895	7.836	1.00	0.00
ATOM	3187	CA	PHE	190	-15.870	15.250	6.562	1.00	0.00
ATOM	3188	HA	PHE	190	-15.057	14.942	5.905	1.00	0.00
ATOM	3189	CB	PHE	190	-17.163	15.305	5.747	1.00	0.00
ATOM	3190	HB2	PHE	190	-17.415	14.305	5.393	1.00	0.00
ATOM	3191	HB3	PHE	190	-17.980	15.690	6.357	1.00	0.00
ATOM	3192	CG	PHE	190	-17.082	16.180	4.538	1.00	0.00
ATOM	3193	CD1	PHE	190	-17.329	17.539	4.627	1.00	0.00
ATOM	3194	HD1	PHE	190	-17.579	17.976	5.594	1.00	0.00
ATOM	3195	CE1	PHE	190	-17.261	18.342	3.500	1.00	0.00
ATOM	3196	HE1	PHE	190	-17.457	19.411	3.579	1.00	0.00
ATOM	3197	CZ	PHE	190	-16.945	17.786	2.276	1.00	0.00
ATOM	3198	HZ	PHE	190	-16.892	18.418	1.390	1.00	0.00
ATOM	3199	CE2	PHE	190	-16.698	16.440	2.175	1.00	0.00
ATOM	3200	HE2	PHE	190	-16.448	15.999	1.210	1.00	0.00
ATOM	3201	CD2	PHE	190	-16.767	15.643	3.301	1.00	0.00
ATOM	3202	HD2	PHE	190	-16.572	14.573	3.225	1.00	0.00
ATOM	3203	C	PHE	190	-15.591	16.635	7.117	1.00	0.00
ATOM	3204	O	PHE	190	-16.204	17.051	8.098	1.00	0.00
ATOM	3205	N	ASP	191	-14.698	17.360	6.466	1.00	0.00
ATOM	3206	H	ASP	191	-14.244	16.995	5.641	1.00	0.00
ATOM	3207	CA	ASP	191	-14.360	18.691	6.899	1.00	0.00
ATOM	3208	HA	ASP	191	-15.235	19.172	7.336	1.00	0.00
ATOM	3209	CB	ASP	191	-13.261	18.641	7.945	1.00	0.00
ATOM	3210	HB2	ASP	191	-13.552	17.915	8.705	1.00	0.00
ATOM	3211	HB3	ASP	191	-12.348	18.305	7.453	1.00	0.00
ATOM	3212	CG	ASP	191	-13.018	19.975	8.594	1.00	0.00
ATOM	3213	OD1	ASP	191	-13.635	20.976	8.167	1.00	0.00
ATOM	3214	OD2	ASP	191	-12.209	20.030	9.538	1.00	0.00
ATOM	3215	C	ASP	191	-13.877	19.409	5.671	1.00	0.00
ATOM	3216	O	ASP	191	-12.729	19.245	5.261	1.00	0.00
ATOM	3217	N	SER	192	-14.751	20.223	5.089	1.00	0.00
ATOM	3218	H	SER	192	-15.697	20.289	5.437	1.00	0.00
ATOM	3219	CA	SER	192	-14.411	20.946	3.880	1.00	0.00
ATOM	3220	HA	SER	192	-13.990	20.255	3.150	1.00	0.00
ATOM	3221	CB	SER	192	-15.641	21.608	3.271	1.00	0.00
ATOM	3222	HB2	SER	192	-15.330	22.154	2.381	1.00	0.00
ATOM	3223	HB3	SER	192	-16.346	20.826	2.989	1.00	0.00
ATOM	3224	OG	SER	192	-16.262	22.497	4.176	1.00	0.00
ATOM	3225	HG	SER	192	-17.030	22.893	3.759	1.00	0.00
ATOM	3226	C	SER	192	-13.309	21.961	4.066	1.00	0.00
ATOM	3227	O	SER	192	-12.865	22.576	3.106	1.00	0.00
ATOM	3228	N	ARG	193	-12.859	22.174	5.288	1.00	0.00
ATOM	3229	H	ARG	193	-13.272	21.783	6.123	1.00	0.00
ATOM	3230	CA	ARG	193	-11.789	23.135	5.437	1.00	0.00
ATOM	3231	HA	ARG	193	-11.922	23.936	4.710	1.00	0.00
ATOM	3232	CB	ARG	193	-11.770	23.740	6.827	1.00	0.00
ATOM	3233	HB2	ARG	193	-11.055	24.562	6.800	1.00	0.00
ATOM	3234	HB3	ARG	193	-12.770	24.134	7.010	1.00	0.00
ATOM	3235	CG	ARG	193	-11.405	22.807	7.908	1.00	0.00
ATOM	3236	HG2	ARG	193	-11.987	21.889	7.820	1.00	0.00
ATOM	3237	HG3	ARG	193	-10.343	22.570	7.852	1.00	0.00
ATOM	3238	CD	ARG	193	-11.702	23.462	9.224	1.00	0.00
ATOM	3239	HD2	ARG	193	-11.585	22.731	10.024	1.00	0.00
ATOM	3240	HD3	ARG	193	-11.006	24.286	9.381	1.00	0.00
ATOM	3241	NE	ARG	193	-13.061	23.985	9.264	1.00	0.00
ATOM	3242	HE	ARG	193	-13.472	24.294	8.395	1.00	0.00
ATOM	3243	CZ	ARG	193	-13.794	24.048	10.368	1.00	0.00
ATOM	3244	NH1	ARG	193	-13.293	23.610	11.526	1.00	0.00
ATOM	3245	HH11	ARG	193	-12.357	23.232	11.557	1.00	0.00
ATOM	3246	HH12	ARG	193	-13.853	23.659	12.366	1.00	0.00
ATOM	3247	NH2	ARG	193	-15.016	24.580	10.317	1.00	0.00
ATOM	3248	HH21	ARG	193	-15.375	24.930	9.441	1.00	0.00
ATOM	3249	HH22	ARG	193	-15.577	24.630	11.156	1.00	0.00
ATOM	3250	C	ARG	193	-10.443	22.532	5.061	1.00	0.00

ATOM	3251	O	ARG	193	-9.485	23.265	4.790	1.00	0.00
ATOM	3252	N	LEU	194	-10.405	21.202	4.954	1.00	0.00
ATOM	3253	H	LEU	194	-11.228	20.664	5.186	1.00	0.00
ATOM	3254	CA	LEU	194	-9.190	20.485	4.593	1.00	0.00
ATOM	3255	HA	LEU	194	-8.353	20.867	5.178	1.00	0.00
ATOM	3256	CB	LEU	194	-9.335	18.992	4.868	1.00	0.00
ATOM	3257	HB2	LEU	194	-10.220	18.663	4.324	1.00	0.00
ATOM	3258	HB3	LEU	194	-8.465	18.439	4.514	1.00	0.00
ATOM	3259	CG	LEU	194	-9.530	18.731	6.366	1.00	0.00
ATOM	3260	HG	LEU	194	-10.317	19.389	6.733	1.00	0.00
ATOM	3261	CD1	LEU	194	-9.910	17.306	6.627	1.00	0.00
ATOM	3262	HD11	LEU	194	-9.123	16.646	6.261	1.00	0.00
ATOM	3263	HD12	LEU	194	-10.041	17.154	7.699	1.00	0.00
ATOM	3264	HD13	LEU	194	-10.843	17.078	6.112	1.00	0.00
ATOM	3265	CD2	LEU	194	-8.271	19.094	7.115	1.00	0.00
ATOM	3266	HD21	LEU	194	-8.046	20.149	6.959	1.00	0.00
ATOM	3267	HD22	LEU	194	-8.414	18.907	8.180	1.00	0.00
ATOM	3268	HD23	LEU	194	-7.442	18.488	6.749	1.00	0.00
ATOM	3269	C	LEU	194	-8.855	20.759	3.144	1.00	0.00
ATOM	3270	O	LEU	194	-7.702	20.613	2.730	1.00	0.00
ATOM	3271	N	ALA	195	-9.852	21.182	2.372	1.00	0.00
ATOM	3272	H	ALA	195	-10.789	21.259	2.741	1.00	0.00
ATOM	3273	CA	ALA	195	-9.624	21.549	0.975	1.00	0.00
ATOM	3274	HA	ALA	195	-8.921	20.883	0.475	1.00	0.00
ATOM	3275	CB	ALA	195	-10.933	21.525	0.221	1.00	0.00
ATOM	3276	HB1	ALA	195	-11.644	22.194	0.705	1.00	0.00
ATOM	3277	HB2	ALA	195	-10.768	21.852	-0.805	1.00	0.00
ATOM	3278	HB3	ALA	195	-11.333	20.511	0.219	1.00	0.00
ATOM	3279	C	ALA	195	-9.027	22.969	0.942	1.00	0.00
ATOM	3280	O	ALA	195	-8.573	23.435	-0.105	1.00	0.00
ATOM	3281	N	PHE	196	-9.029	23.642	2.102	1.00	0.00
ATOM	3282	H	PHE	196	-9.493	23.213	2.890	1.00	0.00
ATOM	3283	CA	PHE	196	-8.530	25.016	2.251	1.00	0.00
ATOM	3284	HA	PHE	196	-8.064	25.353	1.325	1.00	0.00
ATOM	3285	CB	PHE	196	-9.717	25.962	2.582	1.00	0.00
ATOM	3286	HB2	PHE	196	-10.270	25.725	3.491	1.00	0.00
ATOM	3287	HB3	PHE	196	-9.266	26.949	2.679	1.00	0.00
ATOM	3288	CG	PHE	196	-10.742	26.059	1.462	1.00	0.00
ATOM	3289	CD1	PHE	196	-10.440	26.719	0.277	1.00	0.00
ATOM	3290	HD1	PHE	196	-9.503	27.271	0.211	1.00	0.00
ATOM	3291	CE1	PHE	196	-11.330	26.684	-0.842	1.00	0.00
ATOM	3292	HE1	PHE	196	-11.069	27.208	-1.761	1.00	0.00
ATOM	3293	CZ	PHE	196	-12.514	25.990	-0.759	1.00	0.00
ATOM	3294	HZ	PHE	196	-13.198	25.948	-1.606	1.00	0.00
ATOM	3295	CE2	PHE	196	-12.836	25.331	0.435	1.00	0.00
ATOM	3296	HE2	PHE	196	-13.775	24.783	0.511	1.00	0.00
ATOM	3297	CD2	PHE	196	-11.951	25.373	1.537	1.00	0.00
ATOM	3298	HD2	PHE	196	-12.211	24.863	2.465	1.00	0.00
ATOM	3299	C	PHE	196	-7.358	25.187	3.250	1.00	0.00
ATOM	3300	O	PHE	196	-6.627	26.170	3.201	1.00	0.00
ATOM	3301	N	HIE	197	-7.130	24.195	4.097	1.00	0.00
ATOM	3302	H	HIE	197	-7.705	23.366	4.059	1.00	0.00
ATOM	3303	CA	HIE	197	-6.045	24.239	5.071	1.00	0.00
ATOM	3304	HA	HIE	197	-5.360	25.059	4.854	1.00	0.00
ATOM	3305	CB	HIE	197	-6.649	24.463	6.447	1.00	0.00
ATOM	3306	HB2	HIE	197	-7.267	25.360	6.491	1.00	0.00
ATOM	3307	HB3	HIE	197	-7.260	23.590	6.677	1.00	0.00
ATOM	3308	CG	HIE	197	-5.642	24.582	7.548	1.00	0.00
ATOM	3309	ND1	HIE	197	-5.989	24.472	8.878	1.00	0.00
ATOM	3310	CE1	HIE	197	-4.922	24.686	9.625	1.00	0.00
ATOM	3311	HE1	HIE	197	-4.990	24.648	10.713	1.00	0.00
ATOM	3312	NE2	HIE	197	-3.895	24.924	8.828	1.00	0.00
ATOM	3313	HE2	HIE	197	-2.950	25.122	9.123	1.00	0.00
ATOM	3314	CD2	HIE	197	-4.316	24.859	7.523	1.00	0.00
ATOM	3315	HD2	HIE	197	-3.606	25.021	6.713	1.00	0.00
ATOM	3316	C	HIE	197	-5.306	22.902	5.074	1.00	0.00
ATOM	3317	O	HIE	197	-5.851	21.911	5.525	1.00	0.00
ATOM	3318	N	HIE	198	-4.088	22.857	4.551	1.00	0.00
ATOM	3319	H	HIE	198	-3.676	23.693	4.162	1.00	0.00
ATOM	3320	CA	HIE	198	-3.303	21.614	4.521	1.00	0.00
ATOM	3321	HA	HIE	198	-3.947	20.775	4.256	1.00	0.00
ATOM	3322	CB	HIE	198	-2.183	21.718	3.483	1.00	0.00
ATOM	3323	HB2	HIE	198	-2.529	22.267	2.608	1.00	0.00
ATOM	3324	HB3	HIE	198	-1.332	22.237	3.925	1.00	0.00
ATOM	3325	CG	HIE	198	-1.669	20.397	2.986	1.00	0.00
ATOM	3326	ND1	HIE	198	-0.766	20.298	1.944	1.00	0.00
ATOM	3327	CE1	HIE	198	-0.498	19.024	1.718	1.00	0.00

ATOM	3328	HE1	HIE	198	0.199	18.732	0.932	1.00	0.00
ATOM	3329	NE2	HIE	198	-1.196	18.295	2.573	1.00	0.00
ATOM	3330	HE2	HIE	198	-1.190	17.287	2.633	1.00	0.00
ATOM	3331	CD2	HIE	198	-1.937	19.127	3.375	1.00	0.00
ATOM	3332	HD2	HIE	198	-2.583	18.707	4.147	1.00	0.00
ATOM	3333	C	HIE	198	-2.689	21.380	5.894	1.00	0.00
ATOM	3334	O	HIE	198	-1.475	21.429	6.057	1.00	0.00
ATOM	3335	N	VAL	199	-3.542	21.098	6.868	1.00	0.00
ATOM	3336	H	VAL	199	-4.526	21.070	6.642	1.00	0.00
ATOM	3337	CA	VAL	199	-3.143	20.855	8.248	1.00	0.00
ATOM	3338	HA	VAL	199	-2.829	21.766	8.758	1.00	0.00
ATOM	3339	CB	VAL	199	-4.313	20.231	9.032	1.00	0.00
ATOM	3340	HB	VAL	199	-4.559	19.262	8.598	1.00	0.00
ATOM	3341	CG1	VAL	199	-3.931	20.051	10.473	1.00	0.00
ATOM	3342	HG11	VAL	199	-3.686	21.020	10.908	1.00	0.00
ATOM	3343	HG12	VAL	199	-4.765	19.609	11.018	1.00	0.00
ATOM	3344	HG13	VAL	199	-3.065	19.393	10.541	1.00	0.00
ATOM	3345	CG2	VAL	199	-5.557	21.084	8.906	1.00	0.00
ATOM	3346	HG21	VAL	199	-5.839	21.163	7.856	1.00	0.00
ATOM	3347	HG22	VAL	199	-6.371	20.625	9.467	1.00	0.00
ATOM	3348	HG23	VAL	199	-5.358	22.079	9.304	1.00	0.00
ATOM	3349	C	VAL	199	-1.928	19.926	8.384	1.00	0.00
ATOM	3350	O	VAL	199	-0.931	20.276	9.021	1.00	0.00
ATOM	3351	N	ALA	200	-2.028	18.740	7.788	1.00	0.00
ATOM	3352	H	ALA	200	-2.898	18.506	7.331	1.00	0.00
ATOM	3353	CA	ALA	200	-0.978	17.728	7.836	1.00	0.00
ATOM	3354	HA	ALA	200	-0.932	17.402	8.875	1.00	0.00
ATOM	3355	CB	ALA	200	-1.350	16.555	6.982	1.00	0.00
ATOM	3356	HB1	ALA	200	-1.391	16.864	5.938	1.00	0.00
ATOM	3357	HB2	ALA	200	-0.604	15.768	7.099	1.00	0.00
ATOM	3358	HB3	ALA	200	-2.326	16.177	7.287	1.00	0.00
ATOM	3359	C	ALA	200	0.397	18.220	7.443	1.00	0.00
ATOM	3360	O	ALA	200	1.390	17.770	8.013	1.00	0.00
ATOM	3361	N	ARG	201	0.481	19.118	6.468	1.00	0.00
ATOM	3362	H	ARG	201	-0.330	19.438	5.959	1.00	0.00
ATOM	3363	CA	ARG	201	1.790	19.616	6.066	1.00	0.00
ATOM	3364	HA	ARG	201	2.482	18.777	5.992	1.00	0.00
ATOM	3365	CB	ARG	201	1.741	20.328	4.720	1.00	0.00
ATOM	3366	HB2	ARG	201	1.294	19.654	3.990	1.00	0.00
ATOM	3367	HB3	ARG	201	1.119	21.217	4.823	1.00	0.00
ATOM	3368	CG	ARG	201	3.119	20.730	4.255	1.00	0.00
ATOM	3369	HG2	ARG	201	3.639	21.180	5.101	1.00	0.00
ATOM	3370	HG3	ARG	201	3.644	19.826	3.946	1.00	0.00
ATOM	3371	CD	ARG	201	3.085	21.699	3.118	1.00	0.00
ATOM	3372	HD2	ARG	201	2.108	22.182	3.092	1.00	0.00
ATOM	3373	HD3	ARG	201	3.858	22.452	3.270	1.00	0.00
ATOM	3374	NE	ARG	201	3.315	21.046	1.843	1.00	0.00
ATOM	3375	HE	ARG	201	2.981	20.099	1.728	1.00	0.00
ATOM	3376	CZ	ARG	201	3.970	21.612	0.839	1.00	0.00
ATOM	3377	NH1	ARG	201	4.456	22.832	0.984	1.00	0.00
ATOM	3378	HH11	ARG	201	4.326	23.324	1.857	1.00	0.00
ATOM	3379	HH12	ARG	201	4.956	23.267	0.222	1.00	0.00
ATOM	3380	NH2	ARG	201	4.106	20.976	-0.320	1.00	0.00
ATOM	3381	HH21	ARG	201	3.708	20.055	-0.437	1.00	0.00
ATOM	3382	HH22	ARG	201	4.607	21.416	-1.078	1.00	0.00
ATOM	3383	C	ARG	201	2.384	20.555	7.108	1.00	0.00
ATOM	3384	O	ARG	201	3.569	20.867	7.069	1.00	0.00
ATOM	3385	N	GLU	202	1.552	21.056	8.008	1.00	0.00
ATOM	3386	H	GLU	202	0.567	20.833	7.998	1.00	0.00
ATOM	3387	CA	GLU	202	2.043	21.949	9.036	1.00	0.00
ATOM	3388	HA	GLU	202	2.886	22.523	8.653	1.00	0.00
ATOM	3389	CB	GLU	202	0.954	22.916	9.470	1.00	0.00
ATOM	3390	HB2	GLU	202	0.098	22.316	9.778	1.00	0.00
ATOM	3391	HB3	GLU	202	1.339	23.466	10.329	1.00	0.00
ATOM	3392	CG	GLU	202	0.526	23.891	8.398	1.00	0.00
ATOM	3393	HG2	GLU	202	1.338	24.604	8.257	1.00	0.00
ATOM	3394	HG3	GLU	202	0.360	23.342	7.471	1.00	0.00
ATOM	3395	CD	GLU	202	-0.744	24.637	8.779	1.00	0.00
ATOM	3396	OE1	GLU	202	-1.377	24.253	9.792	1.00	0.00
ATOM	3397	OE2	GLU	202	-1.117	25.596	8.062	1.00	0.00
ATOM	3398	C	GLU	202	2.480	21.107	10.212	1.00	0.00
ATOM	3399	O	GLU	202	3.570	21.294	10.737	1.00	0.00
ATOM	3400	N	LEU	203	1.614	20.185	10.630	1.00	0.00
ATOM	3401	H	LEU	203	0.731	20.072	10.153	1.00	0.00
ATOM	3402	CA	LEU	203	1.914	19.297	11.748	1.00	0.00
ATOM	3403	HA	LEU	203	2.119	19.891	12.639	1.00	0.00
ATOM	3404	CB	LEU	203	0.742	18.367	12.042	1.00	0.00

ATOM	3405	HB2	LEU	203	0.705	17.720	11.166	1.00	0.00
ATOM	3406	HB3	LEU	203	1.059	17.786	12.908	1.00	0.00
ATOM	3407	CG	LEU	203	-0.635	18.947	12.300	1.00	0.00
ATOM	3408	HG	LEU	203	-0.977	19.474	11.410	1.00	0.00
ATOM	3409	CD1	LEU	203	-1.607	17.832	12.631	1.00	0.00
ATOM	3410	HD11	LEU	203	-1.266	17.304	13.522	1.00	0.00
ATOM	3411	HD12	LEU	203	-2.595	18.253	12.816	1.00	0.00
ATOM	3412	HD13	LEU	203	-1.660	17.135	11.795	1.00	0.00
ATOM	3413	CD2	LEU	203	-0.544	19.912	13.435	1.00	0.00
ATOM	3414	HD21	LEU	203	0.151	20.711	13.179	1.00	0.00
ATOM	3415	HD22	LEU	203	-1.528	20.337	13.631	1.00	0.00
ATOM	3416	HD23	LEU	203	-0.188	19.394	14.326	1.00	0.00
ATOM	3417	C	LEU	203	3.108	18.433	11.381	1.00	0.00
ATOM	3418	O	LEU	203	3.926	18.096	12.231	1.00	0.00
ATOM	3419	N	HIE	204	3.206	18.048	10.121	1.00	0.00
ATOM	3420	H	HIE	204	2.526	18.314	9.423	1.00	0.00
ATOM	3421	CA	HIE	204	4.295	17.207	9.723	1.00	0.00
ATOM	3422	HA	HIE	204	5.111	17.284	10.441	1.00	0.00
ATOM	3423	CB	HIE	204	3.834	15.762	9.667	1.00	0.00
ATOM	3424	HB2	HIE	204	3.022	15.647	8.949	1.00	0.00
ATOM	3425	HB3	HIE	204	4.670	15.127	9.374	1.00	0.00
ATOM	3426	CG	HIE	204	3.330	15.230	10.972	1.00	0.00
ATOM	3427	ND1	HIE	204	3.983	14.711	12.038	1.00	0.00
ATOM	3428	CE1	HIE	204	3.028	14.362	12.966	1.00	0.00
ATOM	3429	HE1	HIE	204	3.330	13.917	13.914	1.00	0.00
ATOM	3430	NE2	HIE	204	1.833	14.657	12.490	1.00	0.00
ATOM	3431	HE2	HIE	204	0.945	14.514	12.950	1.00	0.00
ATOM	3432	CD2	HIE	204	1.988	15.182	11.287	1.00	0.00
ATOM	3433	HD2	HIE	204	1.116	15.497	10.714	1.00	0.00
ATOM	3434	C	HIE	204	4.820	17.617	8.380	1.00	0.00
ATOM	3435	O	HIE	204	4.642	16.907	7.399	1.00	0.00
ATOM	3436	N	PRO	205	5.547	18.736	8.326	1.00	0.00
ATOM	3437	CD	PRO	205	5.943	19.584	9.460	1.00	0.00
ATOM	3438	HD2	PRO	205	6.161	18.969	10.334	1.00	0.00
ATOM	3439	HD3	PRO	205	5.147	20.288	9.702	1.00	0.00
ATOM	3440	CG	PRO	205	7.171	20.270	8.912	1.00	0.00
ATOM	3441	HG2	PRO	205	8.044	19.621	8.987	1.00	0.00
ATOM	3442	HG3	PRO	205	7.364	21.201	9.444	1.00	0.00
ATOM	3443	CB	PRO	205	6.814	20.531	7.507	1.00	0.00
ATOM	3444	HB2	PRO	205	7.712	20.685	6.909	1.00	0.00
ATOM	3445	HB3	PRO	205	6.142	21.379	7.378	1.00	0.00
ATOM	3446	CA	PRO	205	6.115	19.241	7.072	1.00	0.00
ATOM	3447	HA	PRO	205	5.289	19.433	6.387	1.00	0.00
ATOM	3448	C	PRO	205	7.088	18.269	6.430	1.00	0.00
ATOM	3449	O	PRO	205	7.338	18.327	5.222	1.00	0.00
ATOM	3450	N	GLU	206	7.627	17.366	7.241	1.00	0.00
ATOM	3451	H	GLU	206	7.437	17.392	8.233	1.00	0.00
ATOM	3452	CA	GLU	206	8.577	16.381	6.747	1.00	0.00
ATOM	3453	HA	GLU	206	9.427	16.886	6.289	1.00	0.00
ATOM	3454	CB	GLU	206	9.088	15.506	7.894	1.00	0.00
ATOM	3455	HB2	GLU	206	9.896	14.897	7.489	1.00	0.00
ATOM	3456	HB3	GLU	206	9.487	16.181	8.651	1.00	0.00
ATOM	3457	CG	GLU	206	8.034	14.598	8.527	1.00	0.00
ATOM	3458	HG2	GLU	206	7.218	14.496	7.812	1.00	0.00
ATOM	3459	HG3	GLU	206	8.497	13.625	8.690	1.00	0.00
ATOM	3460	CD	GLU	206	7.492	15.125	9.840	1.00	0.00
ATOM	3461	OE1	GLU	206	7.532	16.357	10.060	1.00	0.00
ATOM	3462	OE2	GLU	206	7.022	14.303	10.657	1.00	0.00
ATOM	3463	C	GLU	206	8.007	15.509	5.616	1.00	0.00
ATOM	3464	O	GLU	206	8.708	15.225	4.649	1.00	0.00
ATOM	3465	N	TYR	207	6.729	15.140	5.707	1.00	0.00
ATOM	3466	H	TYR	207	6.162	15.438	6.488	1.00	0.00
ATOM	3467	CA	TYR	207	6.113	14.297	4.687	1.00	0.00
ATOM	3468	HA	TYR	207	6.660	13.357	4.618	1.00	0.00
ATOM	3469	CB	TYR	207	4.654	13.989	5.022	1.00	0.00
ATOM	3470	HB2	TYR	207	4.100	14.927	4.986	1.00	0.00
ATOM	3471	HB3	TYR	207	4.300	13.327	4.231	1.00	0.00
ATOM	3472	CG	TYR	207	4.439	13.332	6.358	1.00	0.00
ATOM	3473	CD1	TYR	207	5.394	12.487	6.897	1.00	0.00
ATOM	3474	HD1	TYR	207	6.299	12.282	6.325	1.00	0.00
ATOM	3475	CE1	TYR	207	5.214	11.904	8.144	1.00	0.00
ATOM	3476	HE1	TYR	207	5.956	11.208	8.536	1.00	0.00
ATOM	3477	CZ	TYR	207	4.073	12.164	8.859	1.00	0.00
ATOM	3478	OH	TYR	207	3.949	11.628	10.110	1.00	0.00
ATOM	3479	HH	TYR	207	4.709	11.101	10.370	1.00	0.00
ATOM	3480	CE2	TYR	207	3.102	12.989	8.349	1.00	0.00
ATOM	3481	HE2	TYR	207	2.191	13.188	8.913	1.00	0.00