Supporting Information

Multipotent cholinesterase and MAO inhibitors for the treatment of Alzheimer' s disease: Synthesis, pharmacological analysis and molecular modeling of Homoisoflavonoid derivatives

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HPLC chromatograms of target compounds

HPLC chromatograms of **9**

HPLC chromatograms of **10**

HPLC chromatograms of **11**

#	[min]		[min]	[mAU*s]	[mAU]	%
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1	2.896	BV	0.3395	58.38744	2.56576	0.0848
2	3.665	BB	0.0933	14.57961	2.38437	0.0212
3	4.527	BV	0.2951	22.75853	1.09212	0.0330
4	5.450	VV	0.2006	78.61732	5.37658	0.1141
5	5.886	VV	0.1555	21.51624	2.17408	0.0312
6	6.383	VB	0.3278	6.86138e4	3310.25391	99.5977
7	10.344	BB	0.1633	12.60819	1.19291	0.0183
8	11.318	BB	0.1998	68.66176	5.41991	0.0997

HPLC chromatograms of 12

#	[min]		[min]	[mAU*s]	[mAU]	%
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1	0.300	BB	0.2734	47.16094	2.70512	0.1254
2	1.337	BB	0.3456	192.50264	8.71689	0.5117
3	7.399	BV	0.1176	147.83650	18.83492	0.3929
4	7.617	VB	0.2693	3.72351e4	2036.48376	98.9700

HPLC chromatograms of 13

#	[min]		[min]	[mAU*s]	[mAU]	%
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1	3.215	BV	0.1848	258.63297	17.88054	0.4243
2	3.647	VV	0.1498	881.09106	80.40405	1.4454
3	4.328	VV	0.1914	251.39751	17.31864	0.4124
4	4.470	VV	0.1246	197.12138	21.98877	0.3234
5	4.640	VV	0.1616	234.82520	21.14646	0.3852
6	5.340	VB	0.2535	5.79431e4	3529.31323	95.0522
7	6.670	BB	0.5420	237.40239	5.69954	0.3894
8	9.443	BB	0.2294	27.80473	1.87064	0.0456
9	10.350	BB	0.1750	174.36838	15.53071	0.2860
10	11.321	BB	0.2001	753.46948	58.56805	1.2360

HPLC chromatograms of 14

#	[min]		[min]	[mAU*s]	[mAU]	%
1	3.666	BB	0.1001	9.01208	1.34556	0.0203
2	5.741	BB	0.2150	4.44131e4	3178.78931	99.8714
3	10.351	BB	0.1812	13.90588	1.18246	0.0313
4	11.326	BB	0.1988	34.25629	2.58139	0.0770

HPLC chromatograms of 15

#	[min]		[min]	[mAU*s]	[mAU]	%
1	5.601	BB	0.1350	29.24108	3.18853	0.0726
2	6.172	BV	0.1282	114.43382	13.32322	0.2842
3	6.671	VB	0.2359	4.00477e4	2568.79321	99.4654
4	10.312	BB	0.1909	13.75628	1.07810	0.0342
5	11.281	BB	0.1999	57.79608	4.43966	0.1435

HPLC chromatograms of 16

#	[min]		[min]	[mAU*s]	[mAU]	%
1	3.666	BB	0.0849	22.18282	3.99015	0.0724
2	4.800	BV	0.2192	22.24299	1.46464	0.0726
3	5.611	VB	0.1839	3.01357e4	2513.32031	98.3989
4	7.959	BB	0.2009	150.35208	11.77754	0.4909
5	10.310	BB	0.1786	37.85437	3.23386	0.1236
6	11.275	BB	0.2001	257.71603	19.77223	0.8415

HPLC chromatograms of 17

HPLC chromatograms of 18