Selection of Amino Acids and the Biomimetic Synthesis of Amido Bond

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Supporting information

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N-ε-Benzyloxycarbonyl-L-lysine

m.p. 250-251 °C (Lit.¹ 252-254 °C) ¹H NMR (400 MHz, d₆-DMSO and one drop of HCl) δ 1.31 –1.43 (4H, m, CH₂CH₂); 1.80 –1.82 (2H, m, CH₂); 2.97 –3.01 (2H, m, CH₂⁵); 5.03 (2H, s, CH₂Ar); 7.32 –7.39 (5H, m, Ar); 8.50 (2H, s NH₂)²

Sample Name	2011-1128-U	Position	Vial 2	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	Inj Position		Sample Type	Sample	IRM Calibration Status	Success
Data Filename	2011-1128-4-LC.d	ACQ Method	0319-1.m	Comment		Acquired Time	11/28/2011 3:17:15 PM

Sample Name	2011-1128-U	Position	Vial 2	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	Inj Position		Sample Type	Sample	IRM Calibration Status	Success
Data Filename	2011-1128-4-LC.d	ACQ Method	0319-1.m	Comment		Acquired Time	11/28/2011 3:17:15 PM

N-δ- Benzyloxycarbonyl -L-ornithine

m.p. 250-251 °C (Lit.³ 254-255 °C)

Mass and NMR spectrum of crude reaction

Sample Name	Position	Instrument Name	User Name
Unavailable	Unavailable	Unavailable	Unavailable
Inj Vol	InjPosition	SampleType	IBM Calibration Status
Unavailable	Unavailable	Unavailable	Success
Data Filename	ACQ Method	Comment	Acquired Time
2012-1107-sujie.d		Sample information is unavailable	Unavailable

Sample Name	Unavailable	Position	Unavailable	Instrument Name	Unavailable	User Name	Unavailable
Inj Vol	Unavailable	InjPosition	Unavailable	SampleType	Unavailable	IRM Calibration Status	Some Some Missed
Data Filename	2012-0912-su-si.d	ACQ Method		Comment	Sample information is unavailable	Acquired Time	Unavailable

Sample Name	2012-0615-SI	Position	Vial 4	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	2012-0615-si.d	ACQ Method	0319-1.m	Comment		Acquired Time	6/15/2012 8:48:34 AM

Sample Name	2012-0525-suje-1	Position	P1-F6	Instrument Name	Instrument 1	User Name	
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status	Success
Data Filename	2012-0525-suje-1.d	ACQ Method	0319-1.m	Comment		Acquired Time	5/25/2012 10:53:04 AM

Sample Name	2012-0912-su-liang	Position	P1-89	Instrument Name	Instrument 1	User Name
Inj Vol	-1	InjPosition		SampleType	Sample	IRM Calibration Status
Data Filename	2012-0912-su-liang.d	ACQ Method	0319-1.m	Comment		Acquired Time

Some Ions Missed: 9/12/2012 11:14:18 AM

Sample Name	Position	Instrument Name	User Name
Unavailable	Unavailable	Unavailable	Unavailable
Inj Vol	InjPosition	SampleType	IRM Calibration Status
Unavailable	Unavailable	Unavailable	Success
Data Filename	ACQ Method	Comment	Acquired Time
2012-0917-lai.d		Sample information is unavailable	Unavailable

Sample Name	Position	Instrument Name	User Name
2012-0917-niao	PI-E7	Instrument 1	Success
Inj Vol	InjPosition	SampleType	IRM Calibration Status
-1		Sample	
Data Filename	ACQ Method	Comment	Acquired Time
2012-0917-niao.d	0319-1.m		9/17/2012 3:28:53 PM

Sample Name	2012-1026-su-1	Position	P1-E9	Instrument Name	Instrument 1	User Name	IRM Calibration Status	Success
Inj Vol	-1	InjPosition		SampleType	Sample	Acquired Time		10/26/2012 9:38:53 AM
Data Filename	2012-1026-su-2.d	ACQ Method	0319-1.m	Comment

Sample Name	2012-1026-su-1	Position	P1-F9	Instrument Name	Instrument 1	User Name	IRM Calibration Status	Success
Inj Vol	-1	InjPosition		SampleType	Sample	Acquired Time		10/26/2012 9:36:16 AM
Data Filename	2012-1026-su-1.d	ACQ Method	0319-1.m	Comment

Reference

1. Balajthy, Z. Org. Prep. Proceed. Int. 1991, 23, 375-376
2. Y. S. Casadio, D. H. Brown, T. V. Chirila, H.-B. Kraatz and M. V. Baker, Biomacromolecules, 2010, 11, 2949-2959
3. Ledger, R.; Australian Journal of Chemistry 1965, V18(6), P933-5