

Supporting Information File 2
for
Synthesis of functionalised β -keto amides by
aminoacylation/domino fragmentation of β -enamino amides

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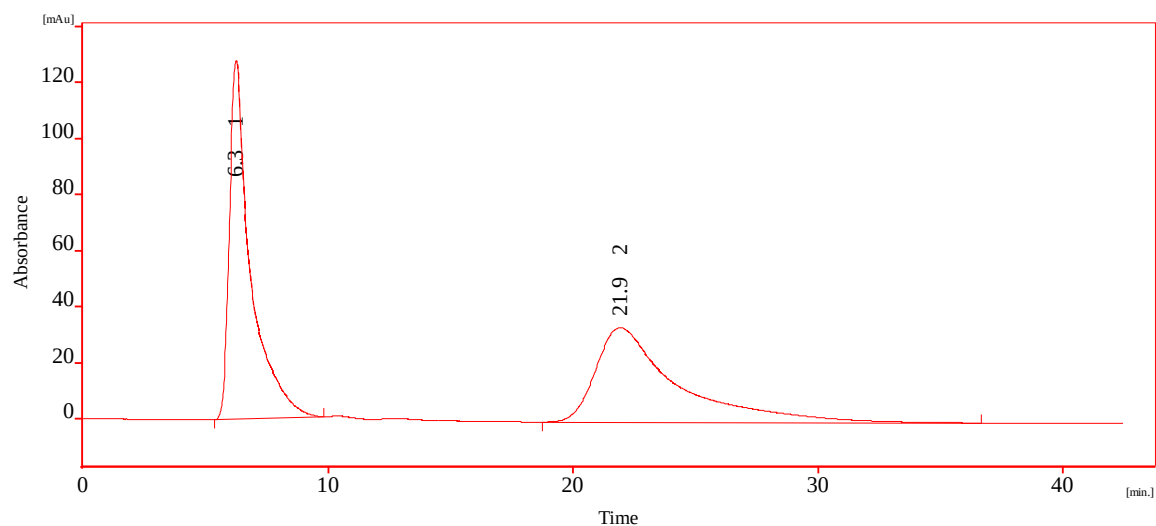
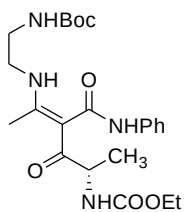
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HPLC data and processed NMR spectra

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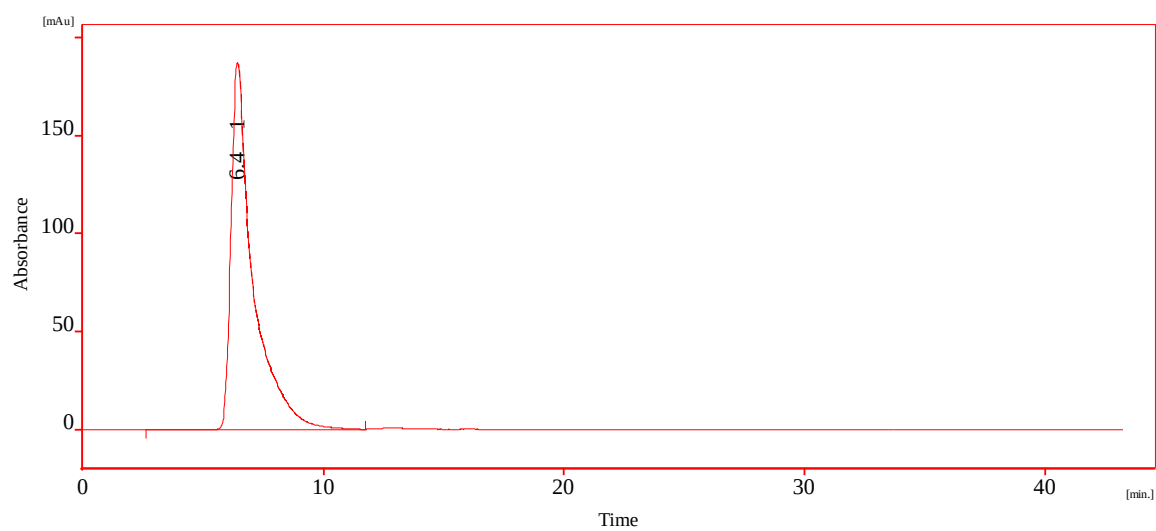
(Primary NMR data available at <http://doi.org/10.5281/zenodo.1419645>)



Column: Lux Amylose-1 (250×4.6)
 Eluent: Hexane/Isopropanol 4:1
 Flow: 1 mL/min
 Detection: 310 nm

3c, racemic

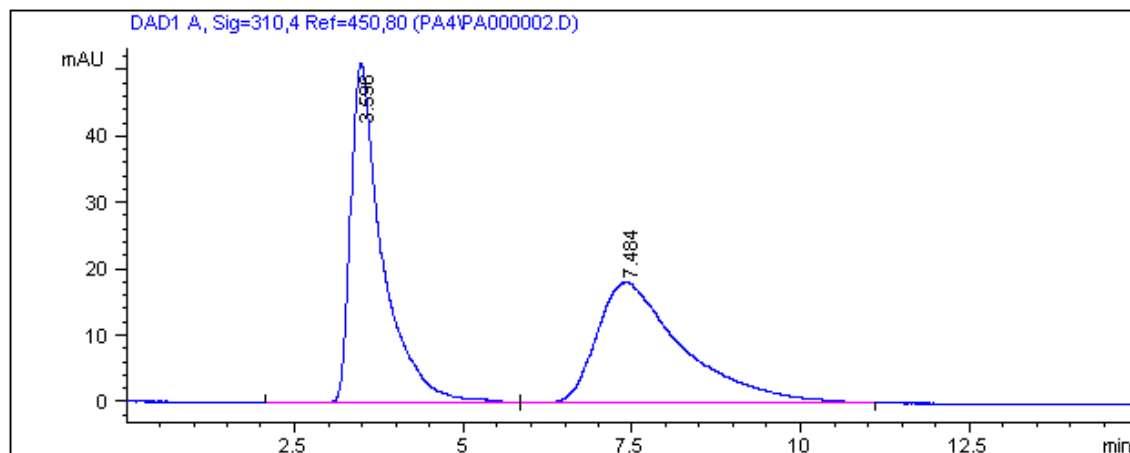
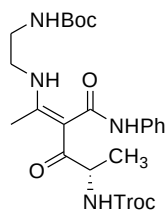
Reten. Time [min]	Area [%]
6.25	49.7
21.93	50.3



Column: Lux Amylose-1 (250×4.6)
 Eluent: Hexane/Isopropanol 4:1
 Flow: 1 mL/min
 Detection: 310 nm

3c (L)

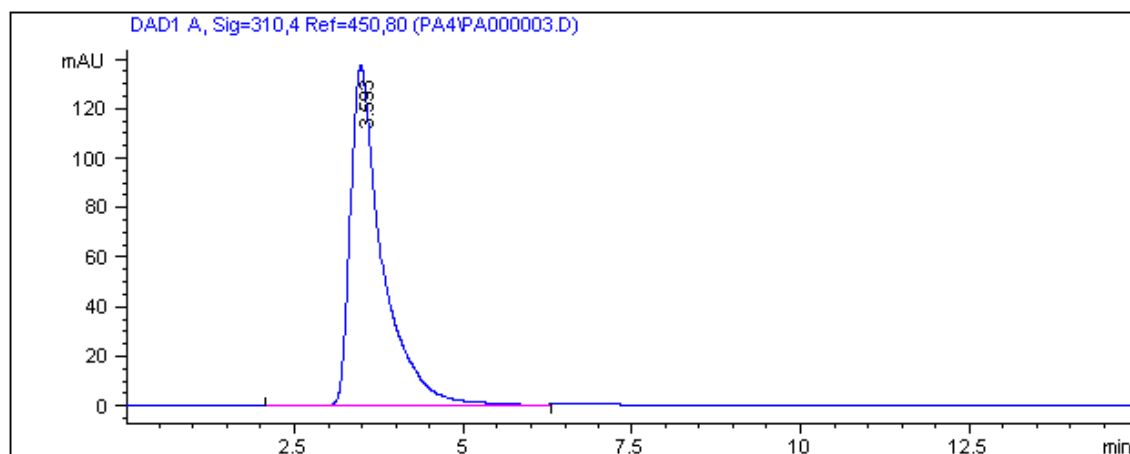
Reten. Time [min]	Area [%]
6.43	100



Column: Lux Amylose-1 (250×4.6)
 Eluent: Hexane/Ethanol 1:1
 Flow: 1 mL/min
 Detection: 310 nm

3d, racemic

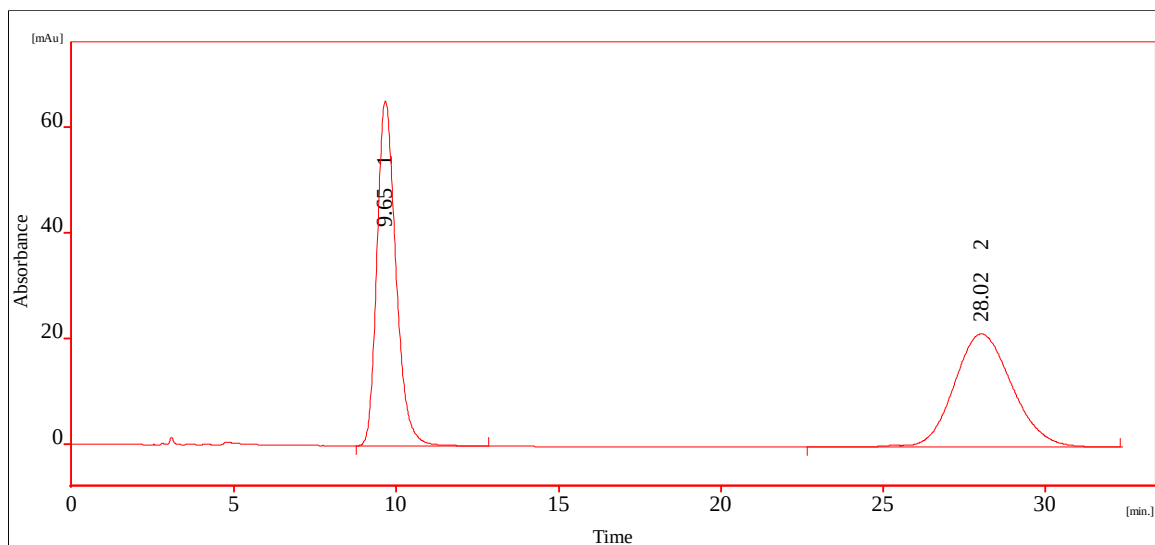
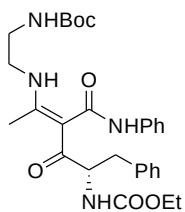
Reten. Time [min]	Area [%]
3.60	50.8
7.48	49.2



Column: Lux Amylose-1 (250×4.6)
 Eluent: Hexane/Ethanol 1:1
 Flow: 1 mL/min
 Detection: 310 nm

3d (L)

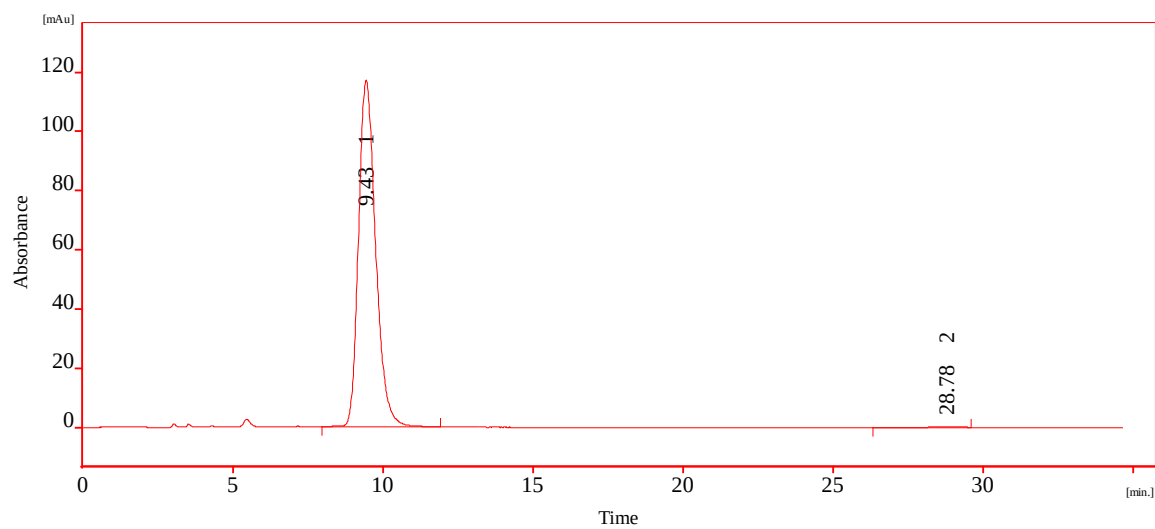
Reten. Time [min]	Area [%]
3.59	100



Column: Lux Amylose-1 (250×4.6)
 Eluent: Hexane/Isopropanol 4:1
 Flow: 1 mL/min
 Detection: 310 nm

3e, racemic

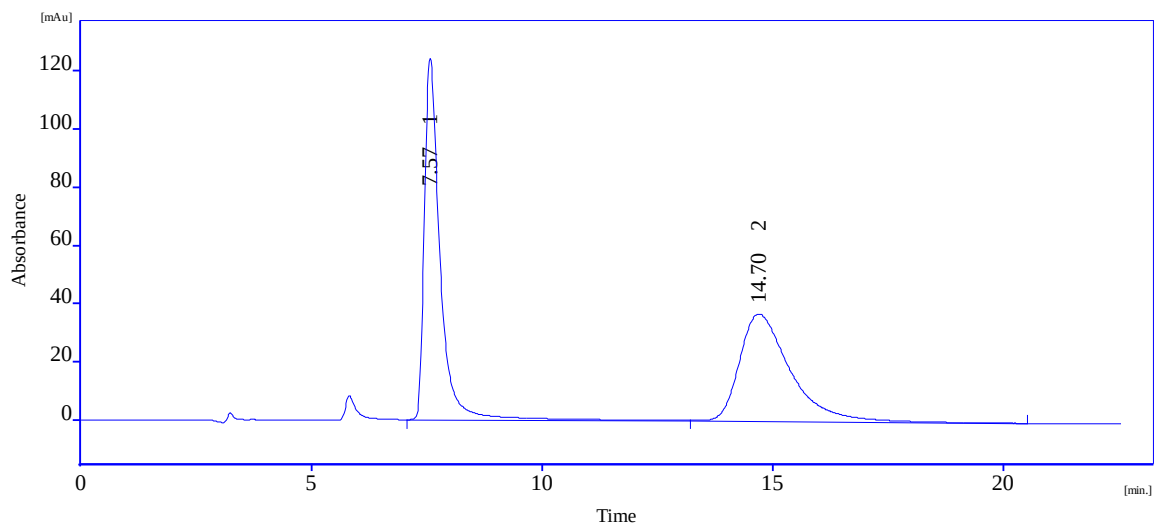
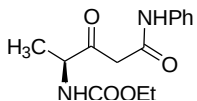
Reten. Time [min]	Area [%]
9.65	49.9
28.02	50.1



Column: Lux Amylose-1 (250×4.6)
 Eluent: Hexane/Isopropanol 4:1
 Flow: 1 mL/min
 Detection: 310 nm

3e (L)

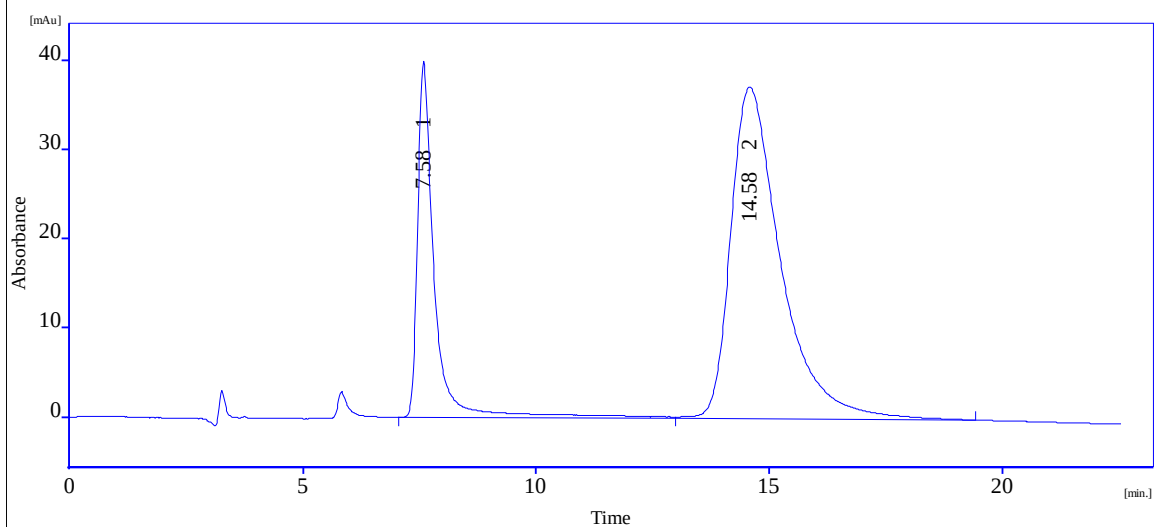
Reten. Time [min]	Area [%]
9.43	99.7
28.78	0.3



Column: Lux Amylose-2 (250×4.6)
 Eluent: Hexane/Isopropanol 1:1
 Flow: 1 mL/min
 Detection: 244 nm

5c, racemic

Reten. Time [min]	Area [%]
7.57	51.1
14.70	48.9

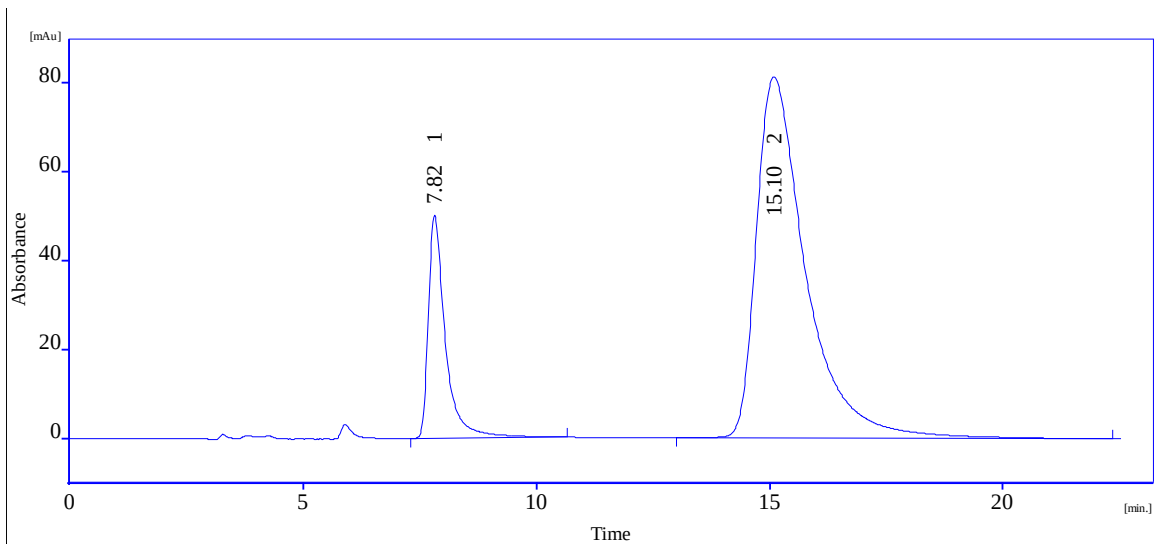


Column: Lux Amylose-2 (250×4.6)
 Eluent: Hexane/Isopropanol 1:1
 Flow: 1 mL/min
 Detection: 244 nm

5c

5 min deprotection of **3c** in neat TFA

Reten. Time [min]	Area [%]
7.58	26.8
14.58	73.2

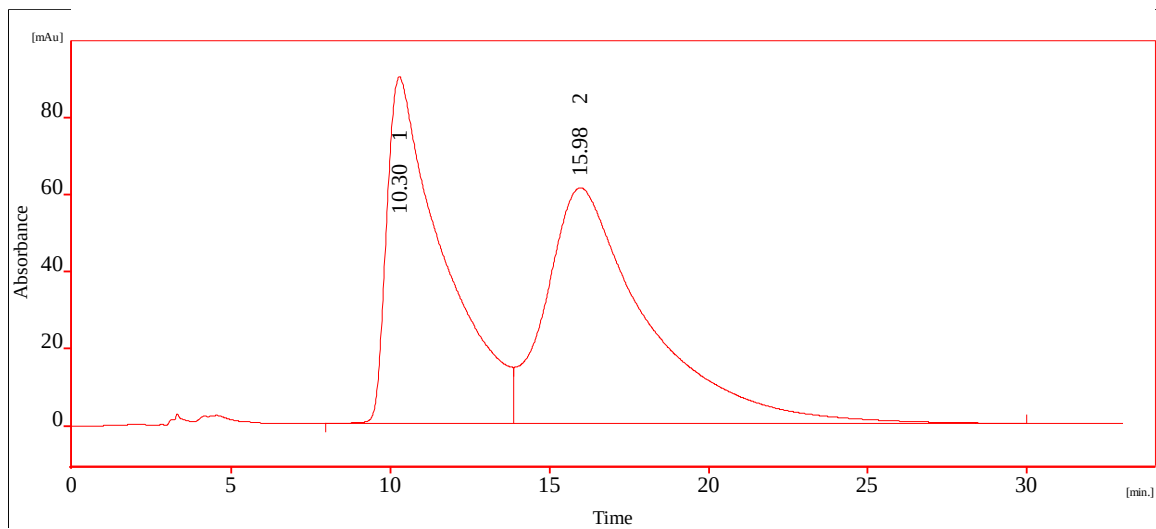
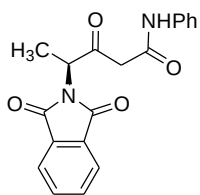


Column: Lux Amylose-2 (250×4.6)
 Eluent: Hexane/Isopropanol 1:1
 Flow: 1 mL/min
 Detection: 244 nm

5c

15 min deprotection of **3c** in TFA/CH₂Cl₂ (1:4)

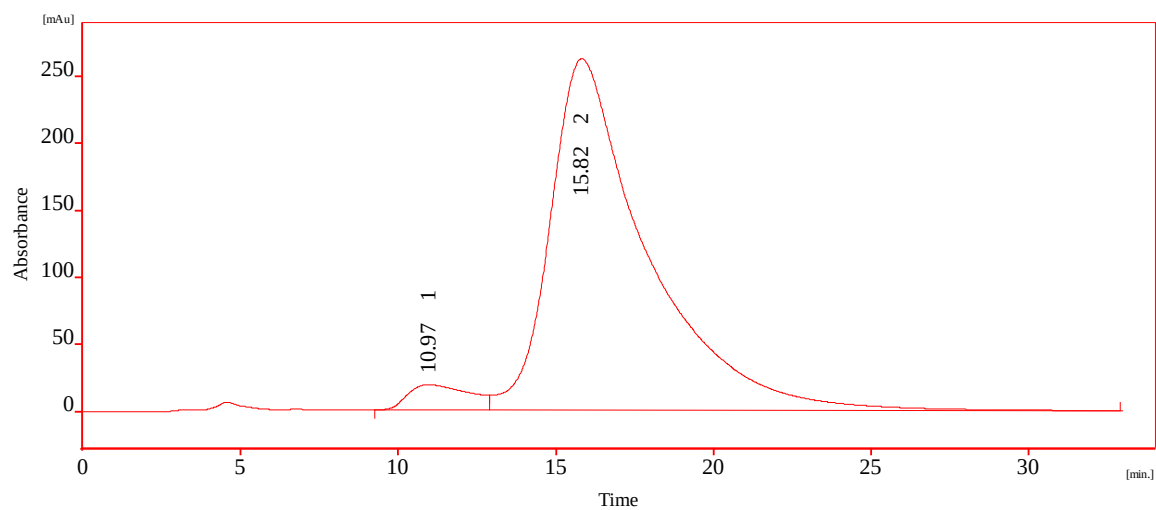
Reten. Time [min]	Area [%]
7.82	17.6
15.10	82.4



Column: Lux Amylose-1 (250×4.6)
 Eluent: Hexane/Ethanol 1:3
 Flow: 1 mL/min
 Detection: 244 nm

5k, racemic

Reten. Time [min]	Area [%]
10.30	45.3
15.98	54.7



Column: Lux Amylose-1 (250×4.6)
 Eluent: Hexane/Ethanol 1:3
 Flow: 1 mL/min
 Detection: 244 nm

5k (L)

30 min deprotection of **3k** in
 TFA/CH₂Cl₂ (1:10)

Reten. Time [min]	Area [%]
10.97	4.3
15.82	95.7

