Electronic Supporting Information for

Circularly polarised luminescence of pyrenyl di- and tri-peptides with mixed D- and L-amino acid residues

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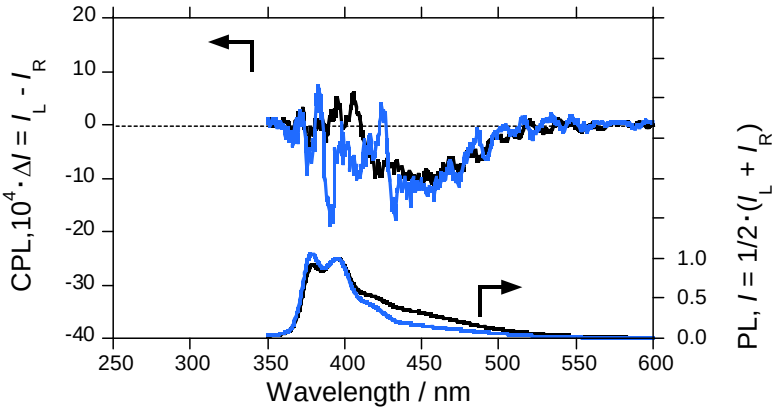

Fig. S1 CPL and PL spectra of **N-LD-C** in $CHCl_3$ at 1.0×10^{-4} M (black lines) and 1.0×10^{-5} M (blue lines). Black arrows indicate corresponding axes.

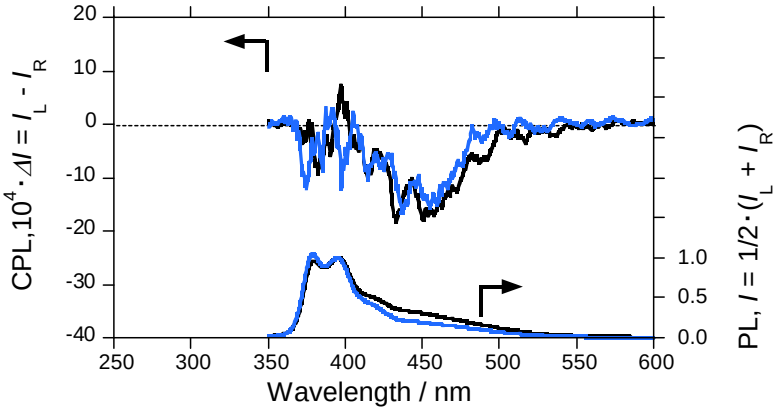

Fig. S2 CPL and PL spectra of **N-LLD-C** in $CHCl_3$ at 1.0×10^{-4} M (black lines) and 1.0×10^{-5} M (blue lines). Black arrows indicate corresponding axes.

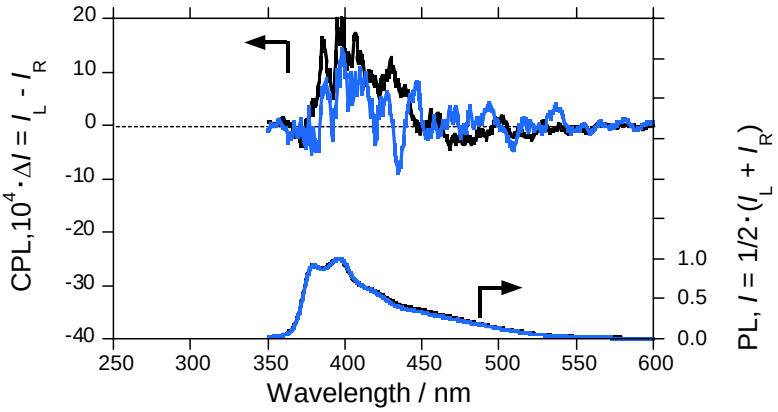

Fig. S3 CPL and PL spectra of **N-LDL-C** in $CHCl_3$ at 1.0×10^{-4} M (black lines) and 1.0×10^{-5} M (blue lines). Black arrows indicate corresponding axes.

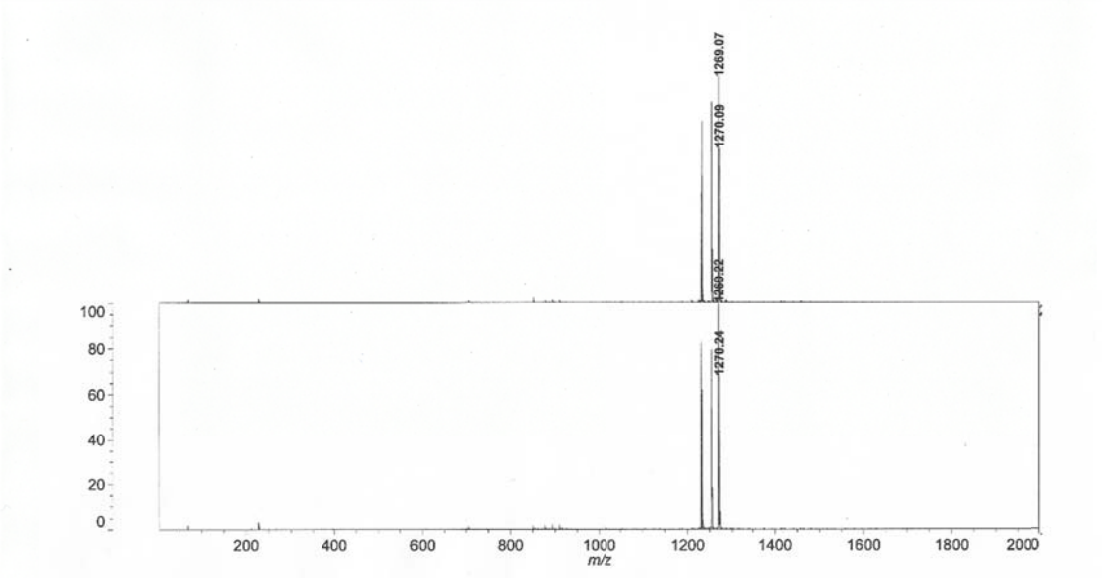

Fig. S4 MALDI-TOF mass spectra of **N-DL-C** and **N-LD-C**. An α-CHCA was used as a matrix. calcd. $[M+H]^+$ = 1230.61, **N-DL-C**; obsd. $[M+H]^+$ = 1231.22, **N-LD-C**; obsd. $[M+H]^+$ = 1231.06.

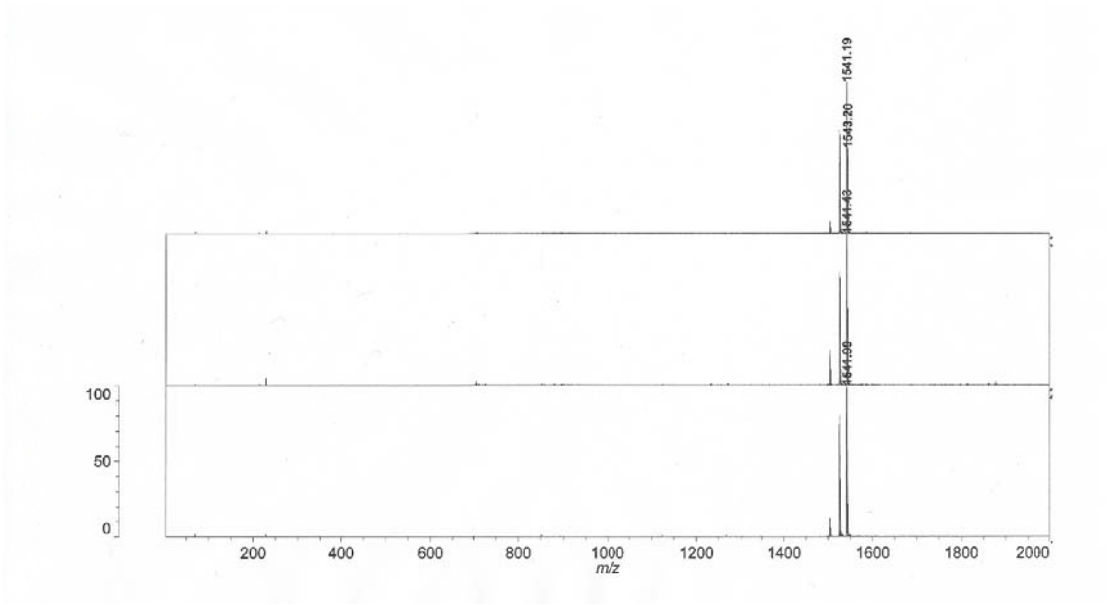

Fig. S5 MALDI-TOF mass spectra of **N-DLL-C**, **N-LDL-C** and **N-DDL-C**. An α-CHCA was used as a matrix. calcd. $[M+Na]^+$ = 1523.71, **N-DLL-C**; obsd. $[M+Na]^+$ = 1524.99, **N-LDL-C**; obsd. $[M+Na]^+$ = 1525.44, **N-DDL-C**; obsd. $[M+Na]^+$ = 1525.18.

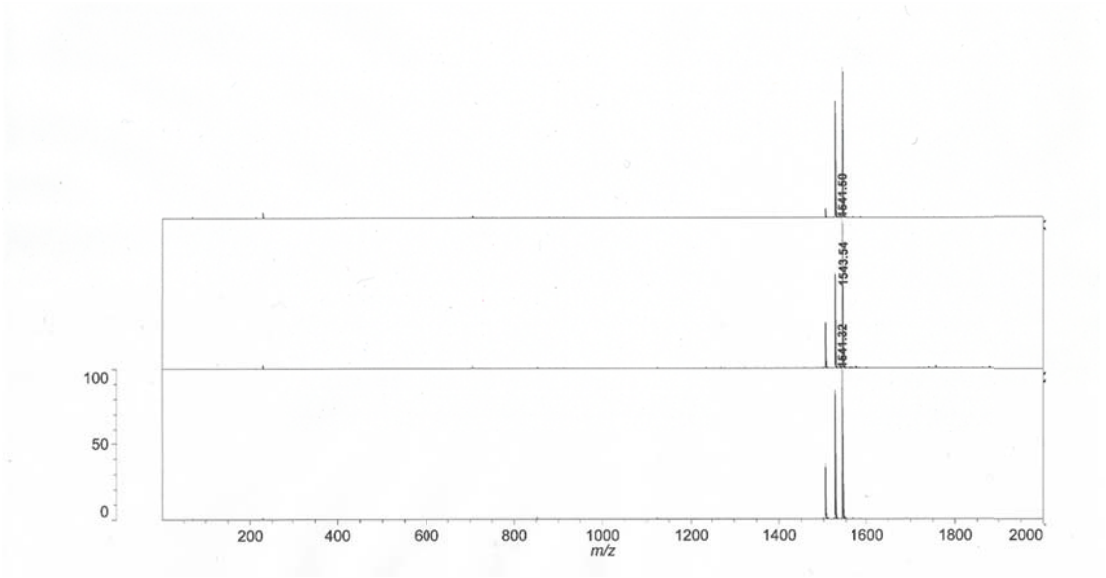

Fig. S6 MALDI-TOF mass spectra of **N-LDD-C**, **N-DLD-C** and **N-LLD-C**. An α-CHCA was used as a matrix. calcd. $[M+Na]^+$ = 1523.71, **N-LDD-C**; obsd. $[M+Na]^+$ = 1525.31, **N-DLD-C**; obsd. $[M+Na]^+$ = 1525.52, **N-LLD-C**; obsd. $[M+Na]^+$ = 1524.49.

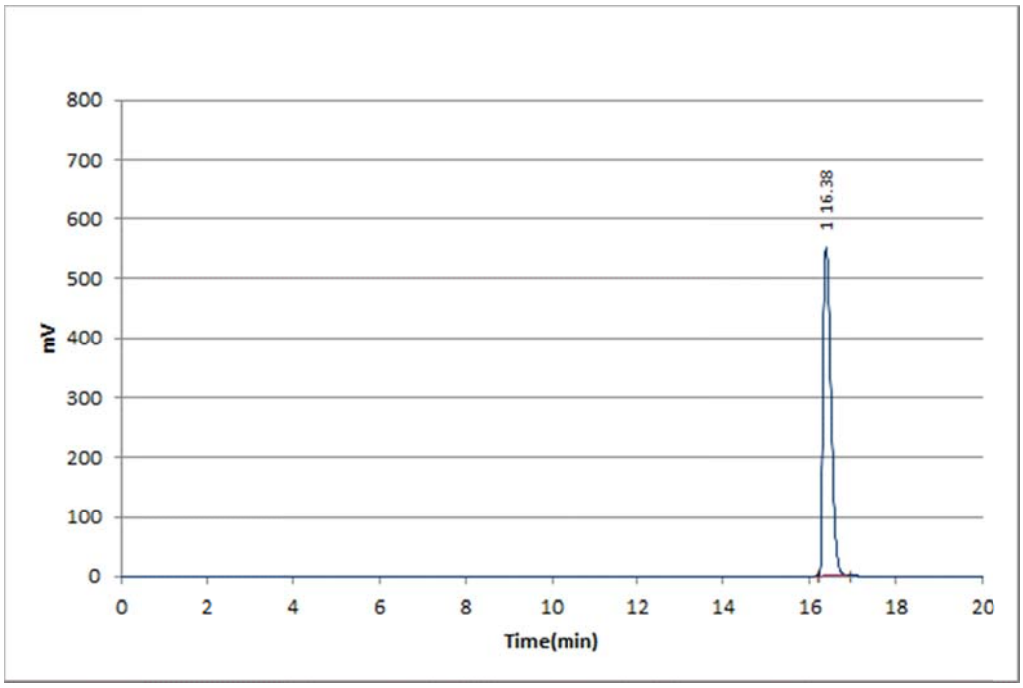

Fig. S7 RP-HPLC chart of **N-DL-C**. Buffer A. 0.1% TFA in water; buffer B, acetonitrile and monitoring at 340 nm with a gradient of 0-100% for 20 min.

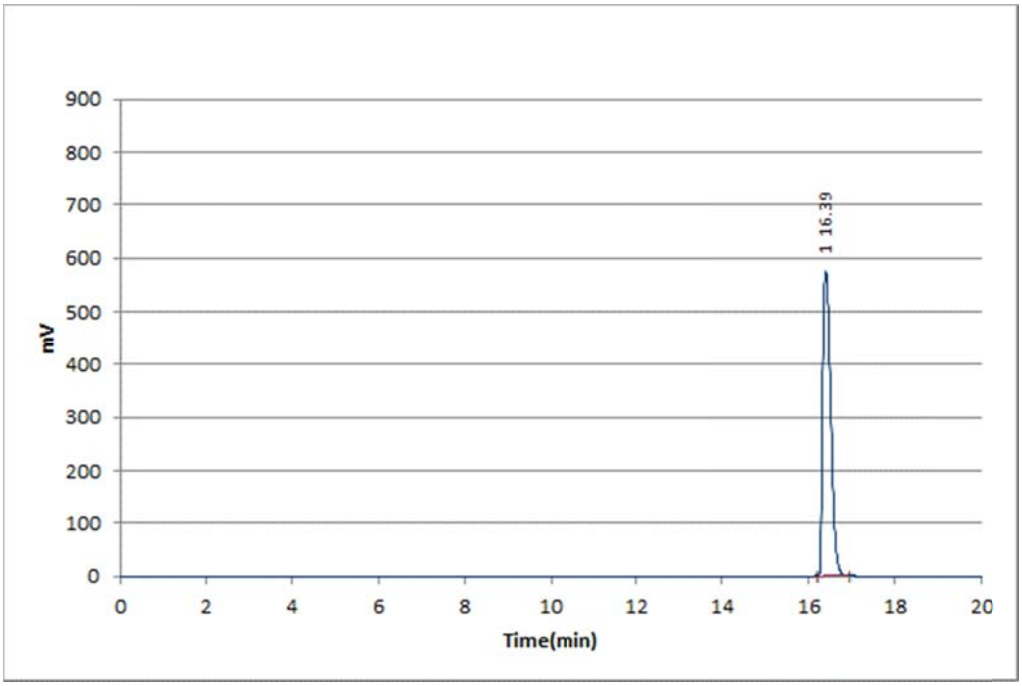

Fig. S8 RP-HPLC chart of **N-LD-C**. Buffer A. 0.1% TFA in water; buffer B, acetonitrile and monitoring at 340 nm with a gradient of 0-100% for 20 min.

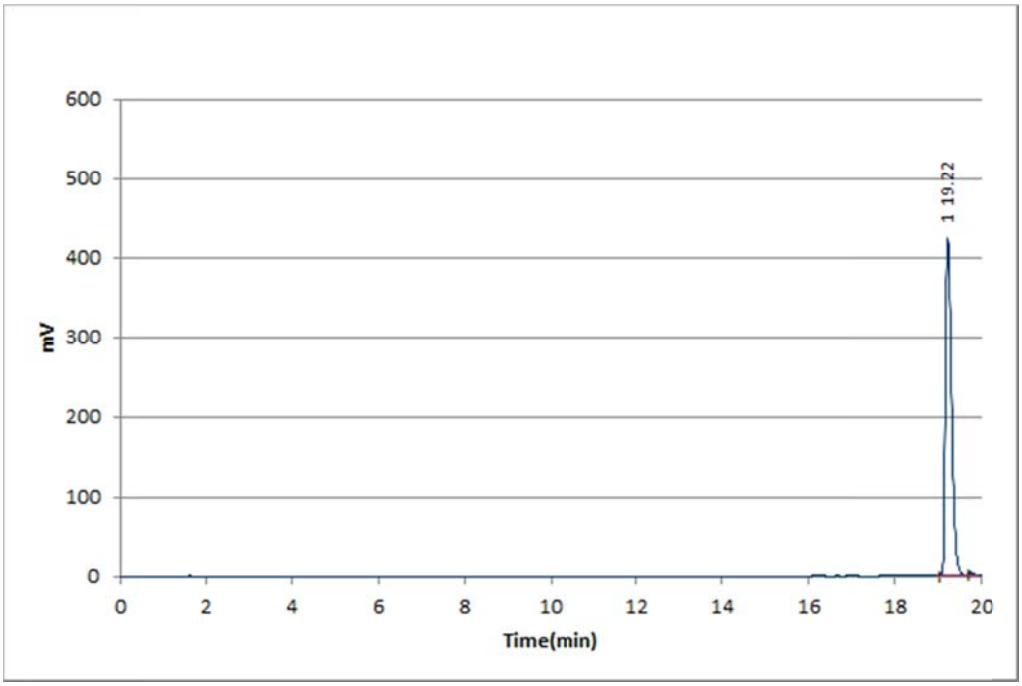

Fig. S9 RP-HPLC chart of **N-DLL-C**. Buffer A. 0.1% TFA in water; buffer B, acetonitrile and monitoring at 340 nm with a gradient of 0-100% for 20 min.

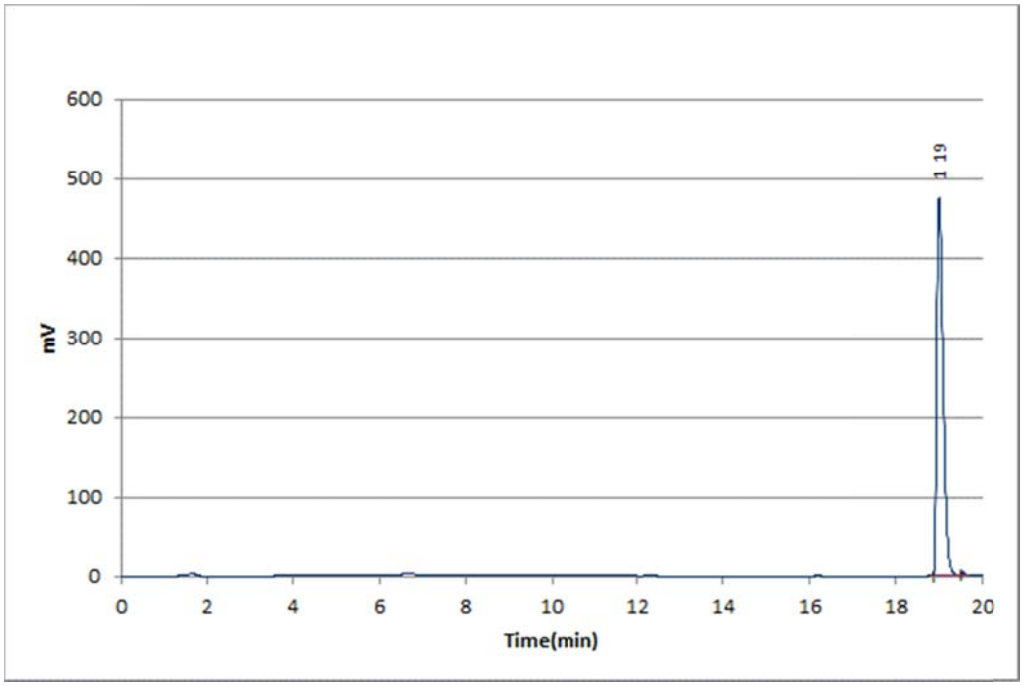

Fig. S10 RP-HPLC chart of **N-DDL-C**. Buffer A. 0.1% TFA in water; buffer B, acetonitrile and monitoring at 340 nm with a gradient of 0-100% for 20 min.

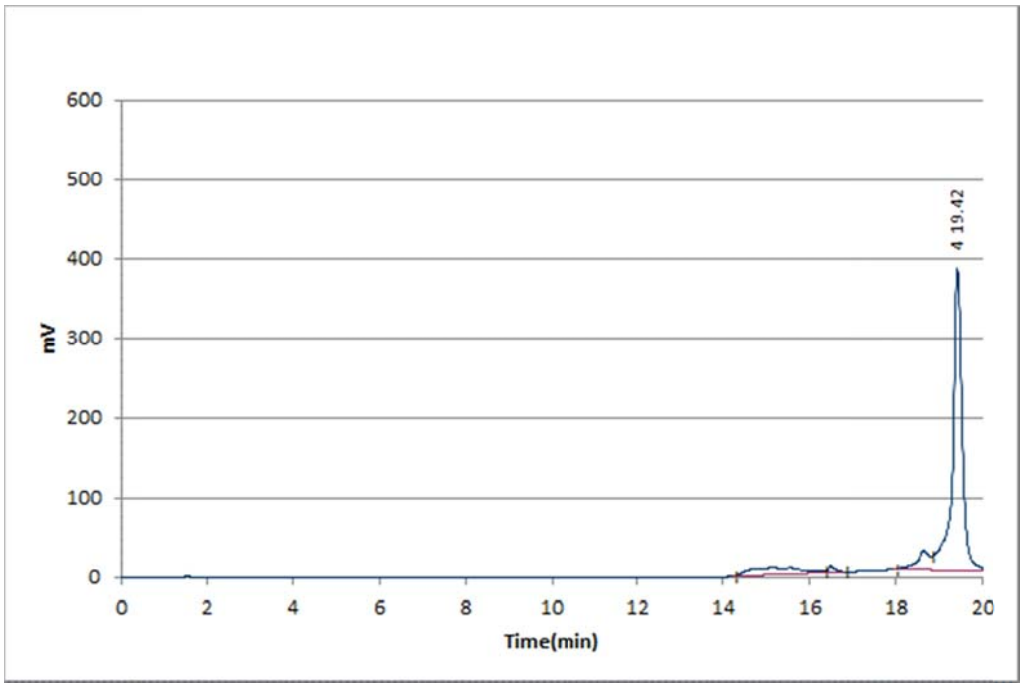

Fig. S11 RP-HPLC chart of **N-LDL-C**. Buffer A. 0.1% TFA in water; buffer B, acetonitrile and monitoring at 340 nm with a gradient of 0-100% for 20 min.

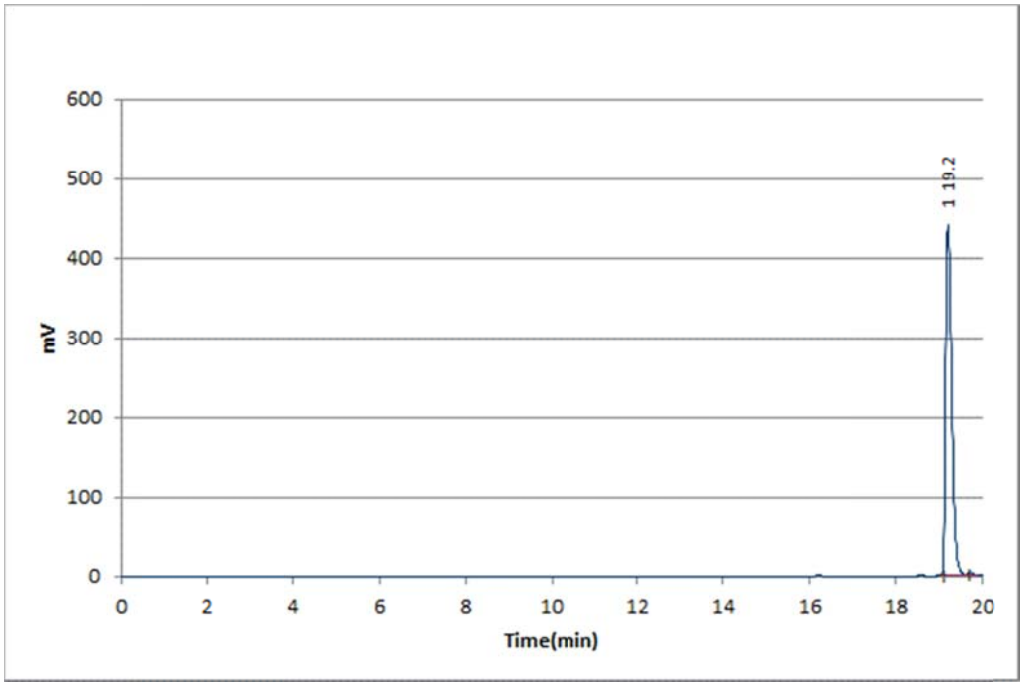

Fig. S12 RP-HPLC chart of **N-LDD-C**. Buffer A. 0.1% TFA in water; buffer B, acetonitrile and monitoring at 340 nm with a gradient of 0-100% for 20 min.

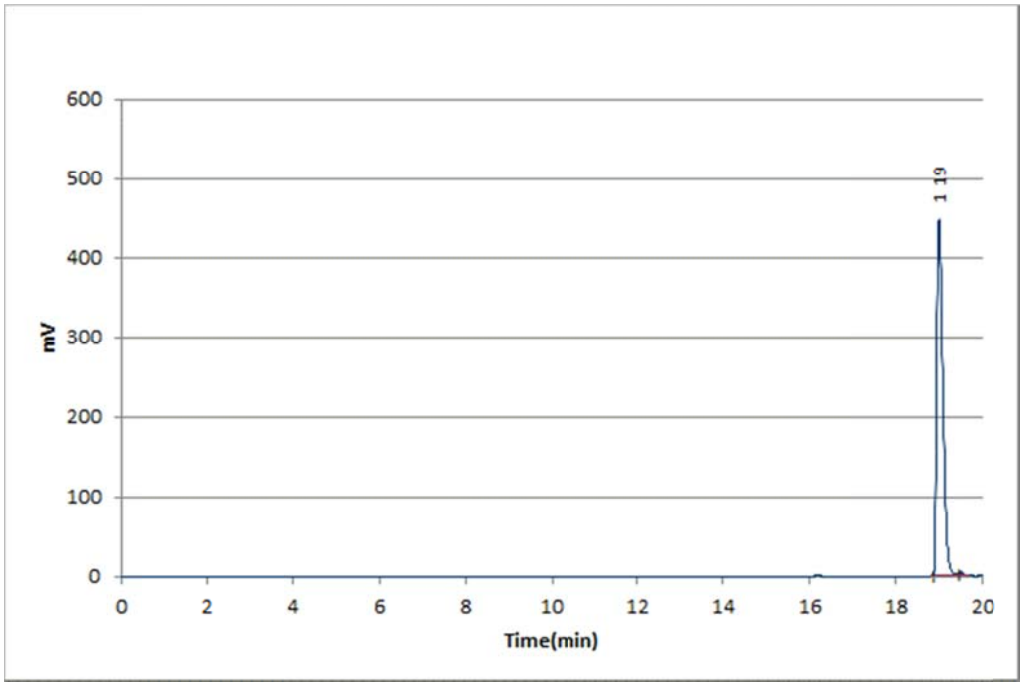

Fig. S13 RP-HPLC chart of **N-LLD-C**. Buffer A. 0.1% TFA in water; buffer B, acetonitrile and monitoring at 340 nm with a gradient of 0-100% for 20 min.

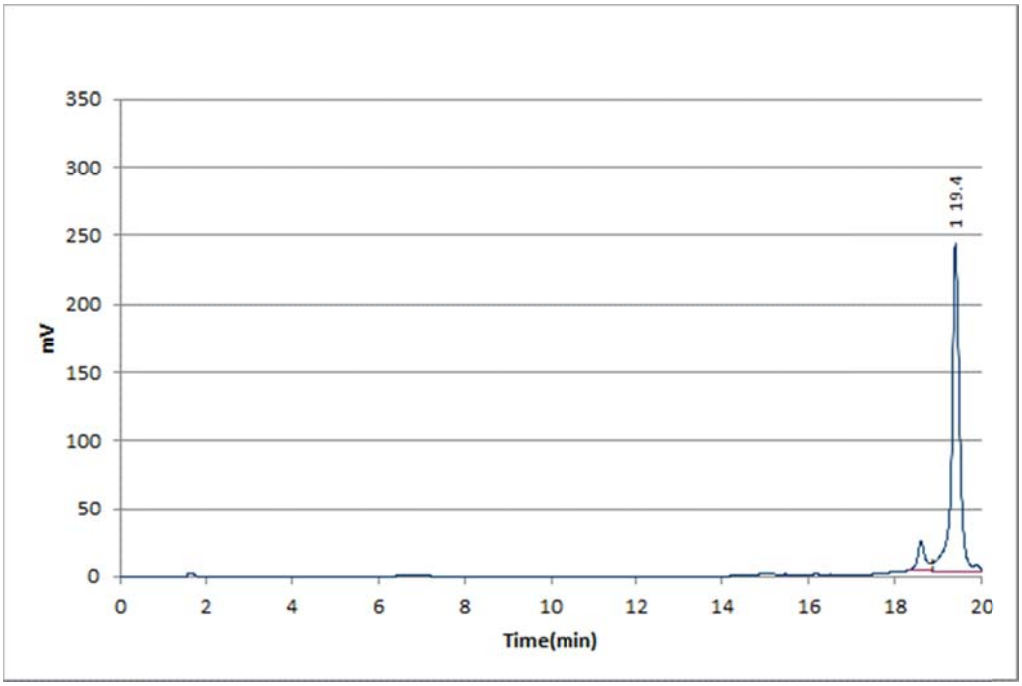

Fig. S14 RP-HPLC chart of **N-DLD-C**. Buffer A. 0.1% TFA in water; buffer B, acetonitrile and monitoring at 340 nm with a gradient of 0-100% for 20 min.