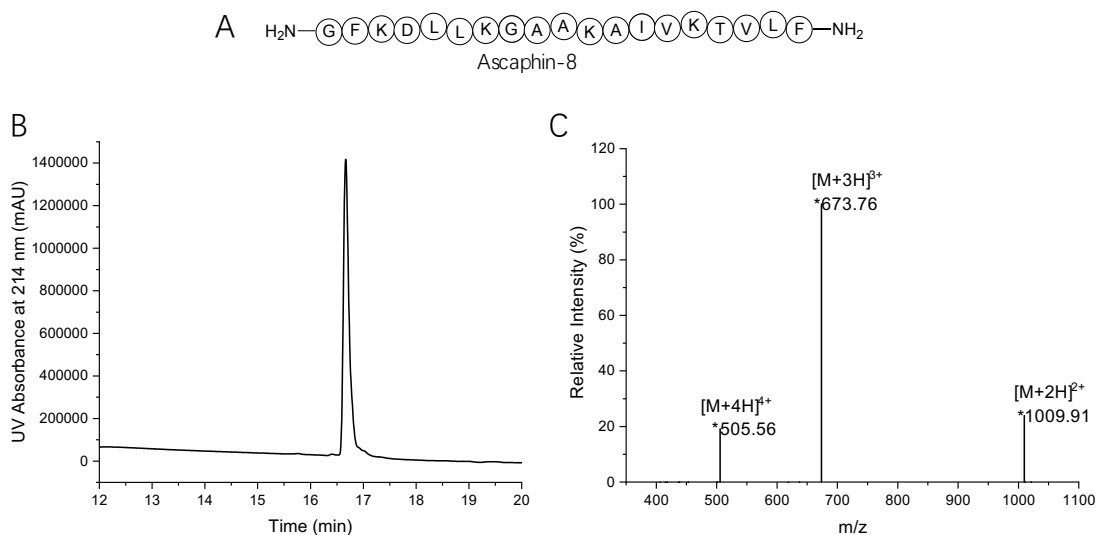
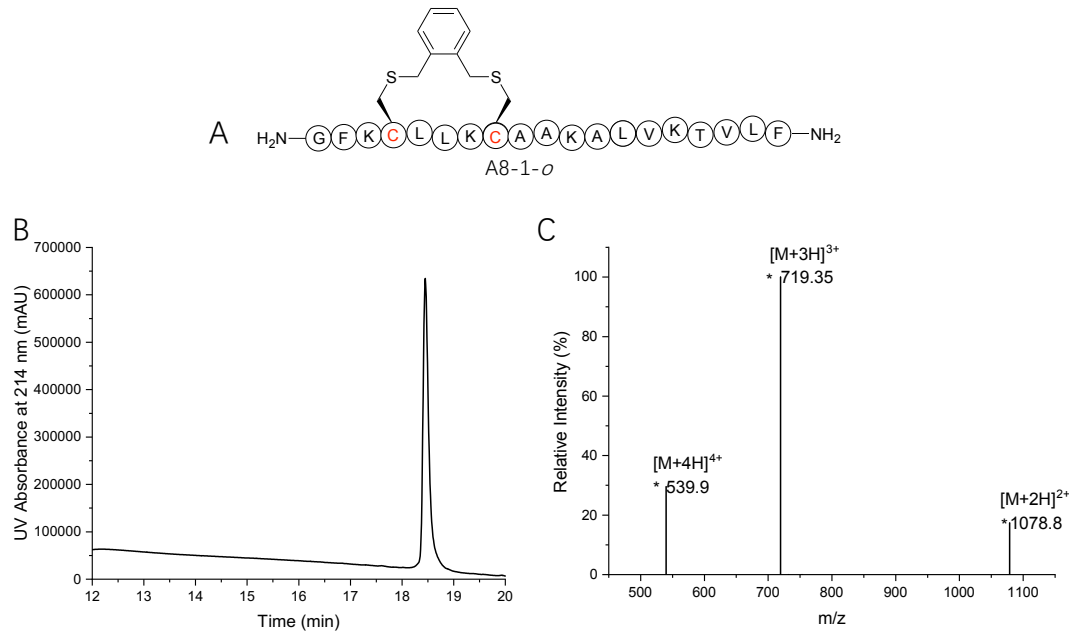


Supplementary Material

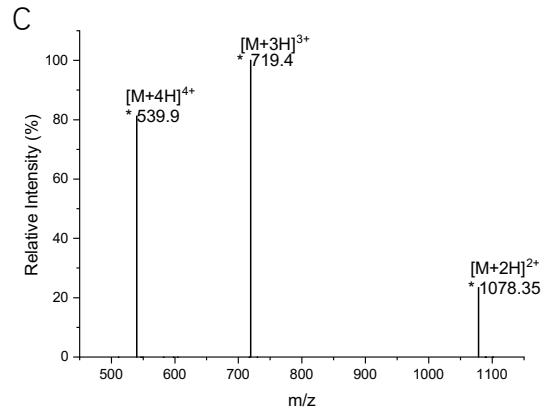
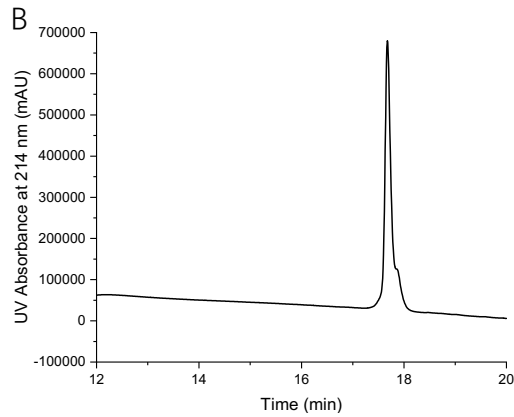
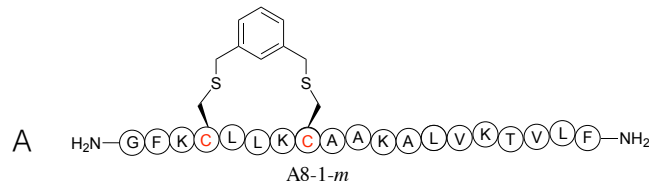
HPLC and MS spectra of compounds



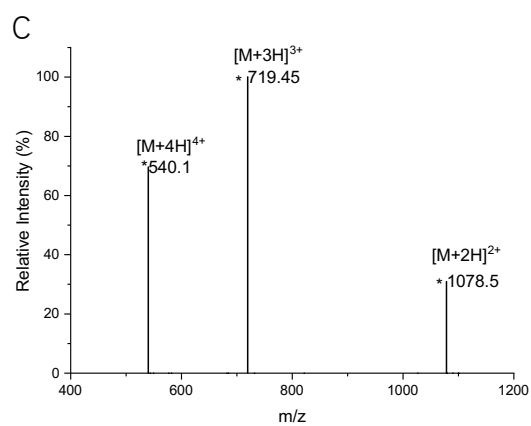
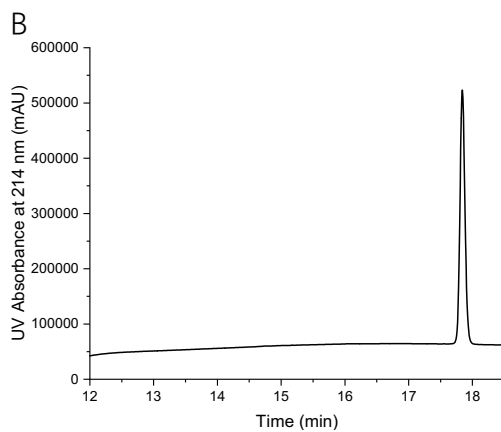
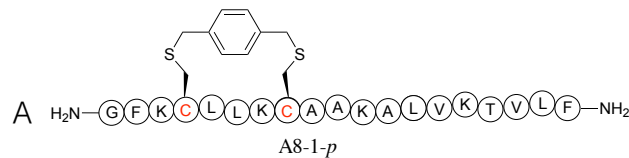
Supplementary Figure 1. A) The structure Ascaphin-8; B) The HPLC of purified Ascaphin-8; C) MS spectrum of Ascaphin-8 calculated for $C_{97}H_{164}N_{24}O_{22}$ 2017.25; found $[M+2H]^{2+}$: 1009.91; $[M+3H]^{3+}$: 673.76; $[M+4H]^{4+}$: 505.56.



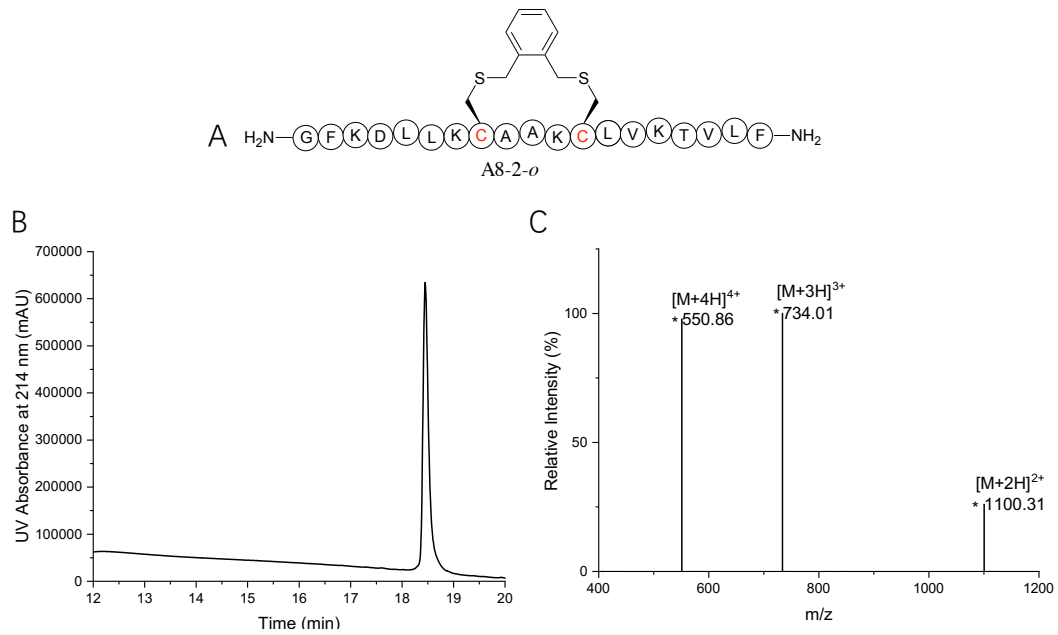
Supplementary Figure 2. A) The structure A8-1-o; B) The HPLC of purified A8-1-o; C) MS spectrum of A8-1-o calculated for $C_{105}H_{172}N_{24}O_{20}S_2$ 2153.26; found $[M+2H]^{2+}$: 1078.8; $[M+3H]^{3+}$: 719.35; $[M+4H]^{4+}$: 539.9.



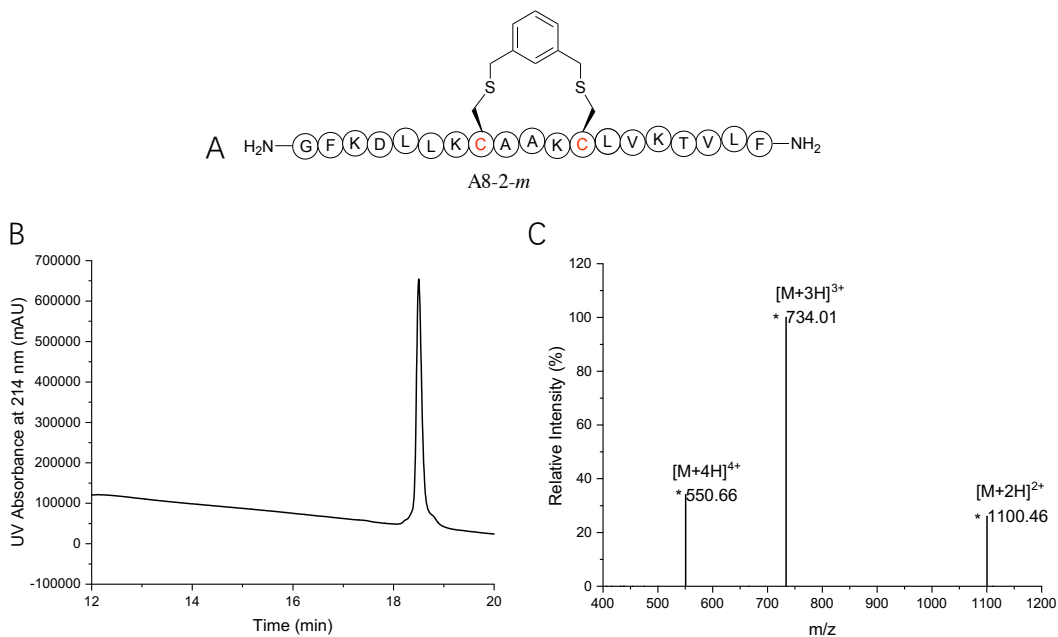
Supplementary Figure 3. A) The structure A8-1-*m*; B) The HPLC of purified A8-1-*m*; C) MS spectrum of A8-1-*m* calculated for $C_{105}H_{172}N_{24}O_{20}S_2$ 2153.26; found $[M+2H]^{2+}$: 1078.35; $[M+3H]^{3+}$: 719.4; $[M+4H]^{4+}$: 539.9.



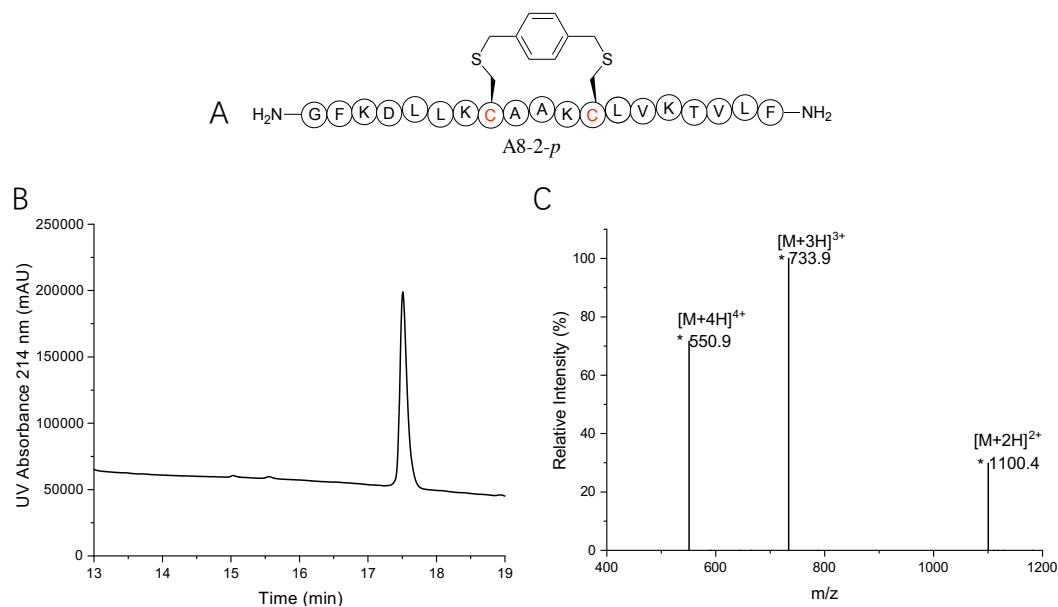
Supplementary Figure 4. A) The structure A8-1-*p*; B) The HPLC of purified A8-1-*p*; C) MS spectrum of A8-1-*p* calculated for $C_{105}H_{172}N_{24}O_{20}S_2$ 2153.26; found $[M+2H]^{2+}$: 1078.5; $[M+3H]^{3+}$: 719.45; $[M+4H]^{4+}$: 540.1.



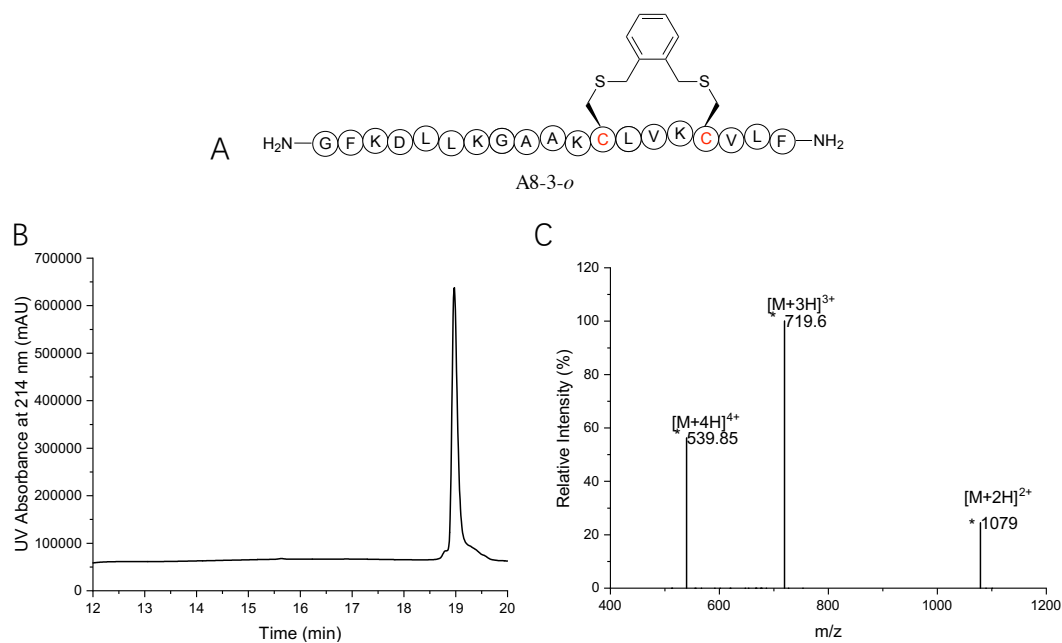
Supplementary Figure 5. A) The structure A8-2-o; B) The HPLC of purified A8-2-o; C) MS spectrum of A8-2-o calculated for $C_{106}H_{172}N_{24}O_{22}S_2$ 2197.24; found $[M+2H]^{2+}$: 1100.31; $[M+3H]^{3+}$: 734.01; $[M+4H]^{4+}$: 550.86.



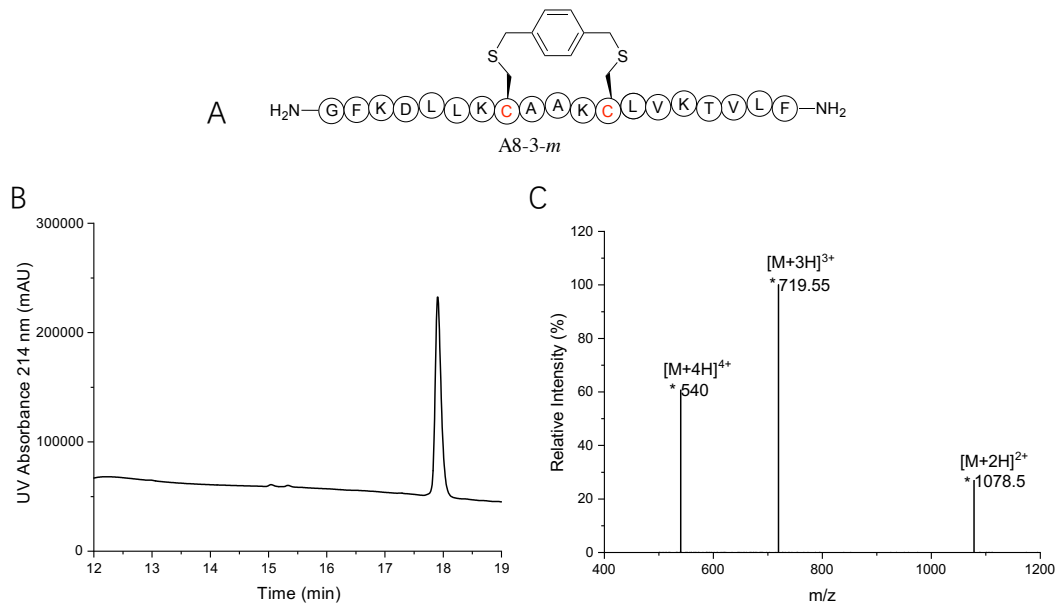
Supplementary Figure 6. A) The structure A8-2-m; B) The HPLC of purified A8-2-m; C) MS spectrum of A8-2-m calculated for $C_{106}H_{172}N_{24}O_{22}S_2$ 2197.24; found $[M+2H]^{2+}$: 1100.46; $[M+3H]^{3+}$: 734.01; $[M+4H]^{4+}$: 550.66.



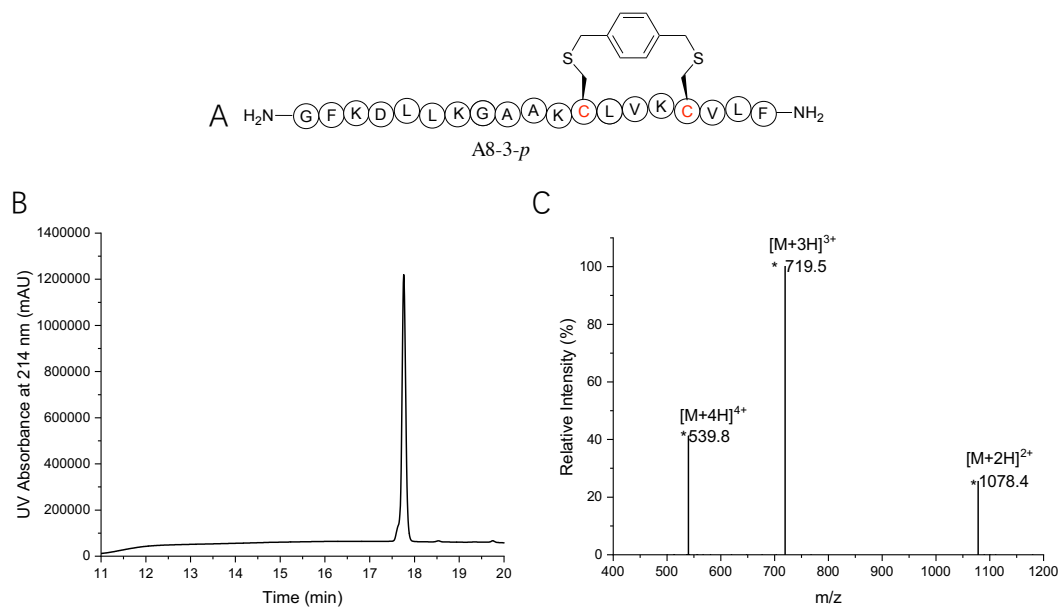
Supplementary Figure 7. A) The structure A8-2-*p*; B) The HPLC of purified A8-2-*p*; C) MS spectrum of A8-2-*p* calculated for $C_{106}H_{172}N_{24}O_{22}S_2$ 2197.24; found $[M+2H]^{2+}$: 1100.4; $[M+3H]^{3+}$: 733.9; $[M+4H]^{4+}$: 550.9.



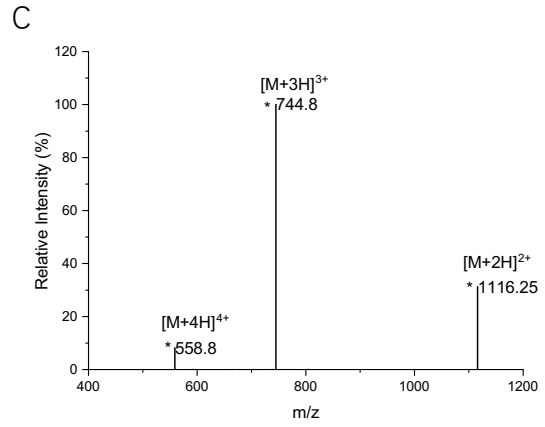
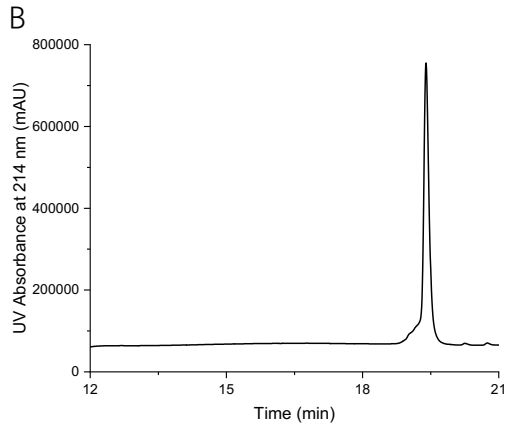
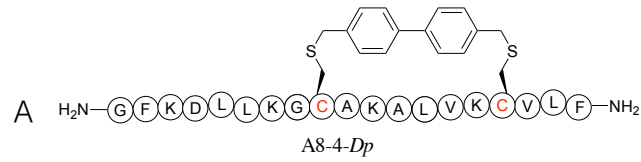
Supplementary Figure 8. A) The structure A8-3-*o*; B) The HPLC of purified A8-3-*o*; C) MS spectrum of A8-3-*o* calculated for $C_{104}H_{167}N_{23}O_{22}S_2$ 2154.2; found $[M+2H]^{2+}$: 1079; $[M+3H]^{3+}$: 719.6; $[M+4H]^{4+}$: 539.85.



Supplementary Figure 9. A) The structure A8-3-*m*; B) The HPLC of purified A8-3-*m*; C) MS spectrum of A8-3-*m* calculated for C₁₀₄H₁₆₇N₂₃O₂₂S₂ 2154.2; found [M+2H]²⁺: 1078.75; [M+3H]³⁺: 719.55; [M+4H]⁴⁺: 540.



Supplementary Figure 10. A) The structure A8-3-*p*; B) The HPLC of purified A8-3-*p*; C) MS spectrum of A8-3-*p* calculated for C₁₀₄H₁₆₇N₂₃O₂₂S₂ 2154.2; found [M+2H]²⁺: 1078.4; [M+3H]³⁺: 719.5; [M+4H]⁴⁺: 539.8.



Supplementary Figure 11. A) The structure A8-4-Dp; B) The HPLC of purified A8-4-Dp; C) MS spectrum of A8-4-Dp calculated for C₁₁₀H₁₇₁N₂₃O₂₂S₂ 2230.24; found [M+2H]²⁺: 1116.25; [M+3H]³⁺: 744.8; [M+4H]⁴⁺: 558.8.