

Supplementary Information

Development of Cationic Lipid-Conjugated Haloperidol Derivatives as Sigma Receptor Targeted Anticancer Therapeutics

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Figure S1

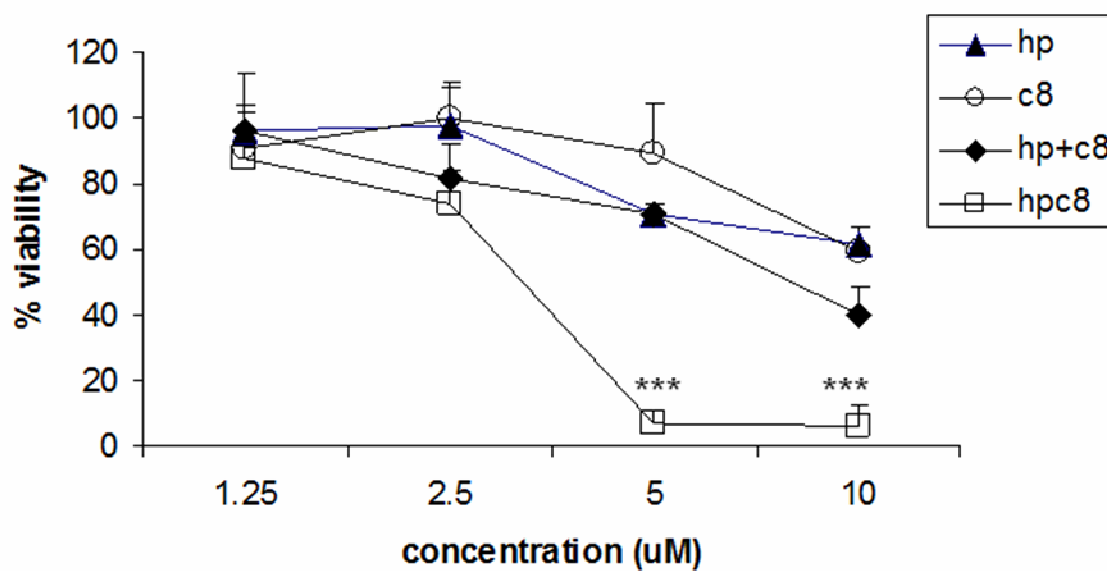
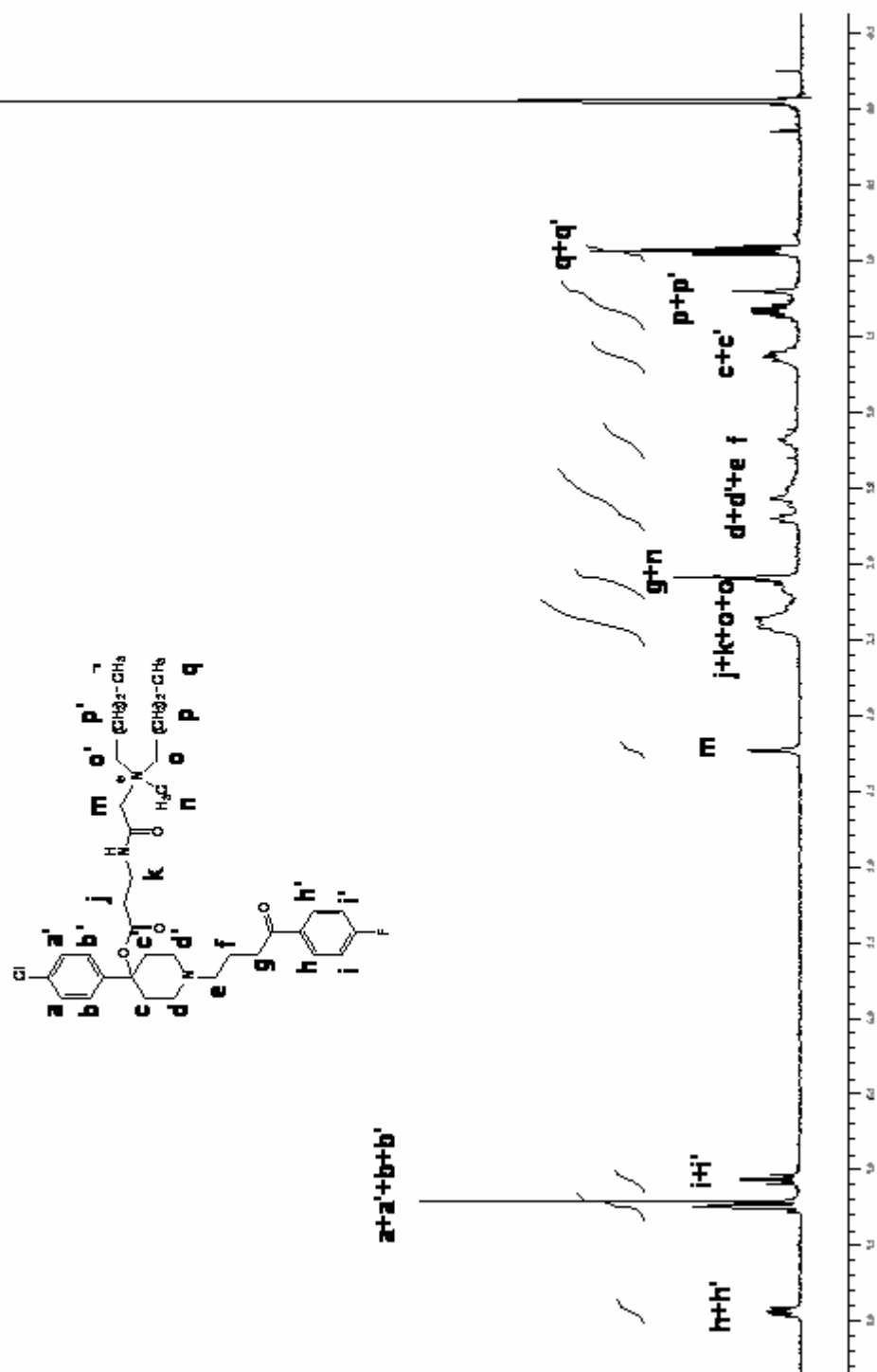
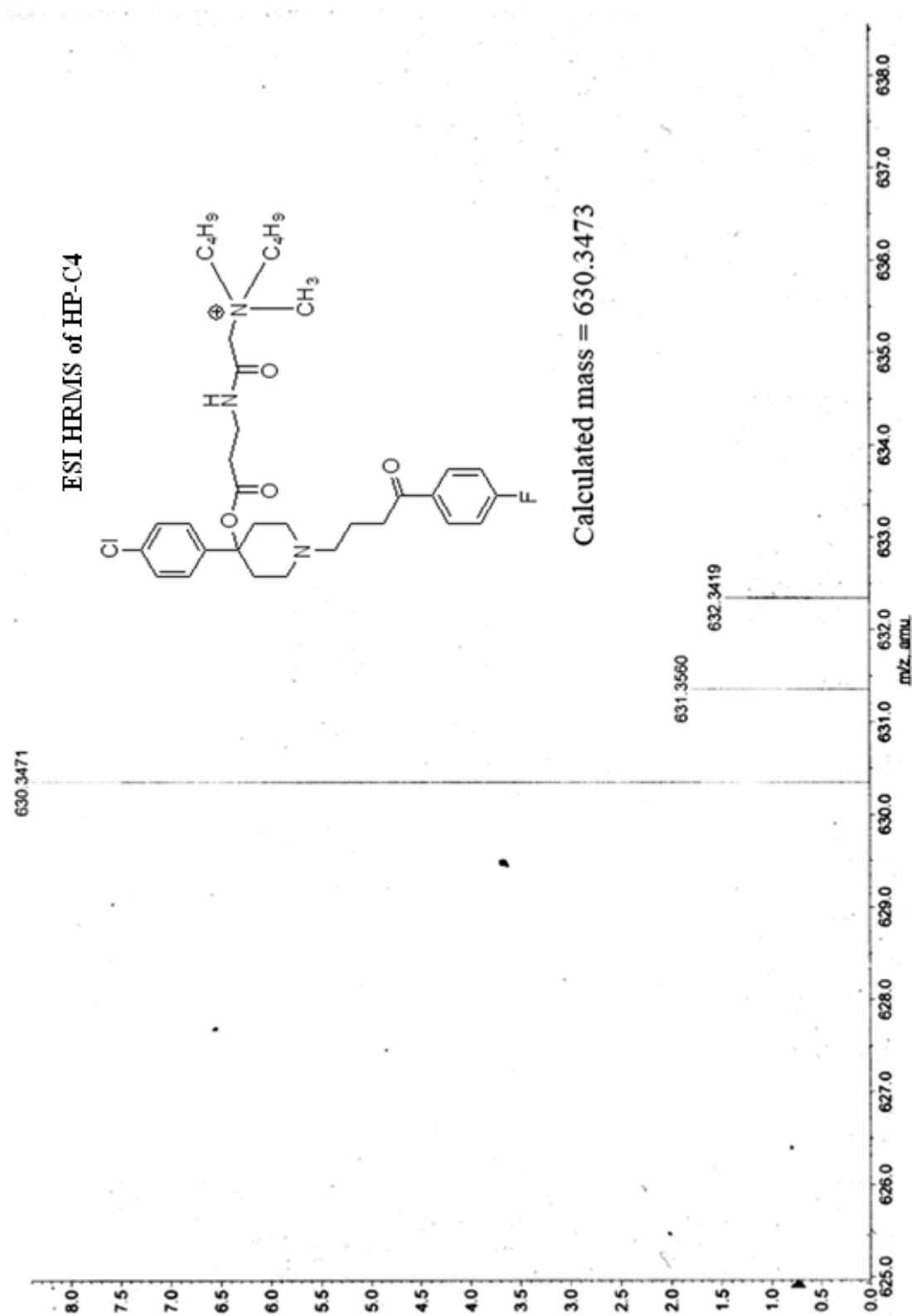


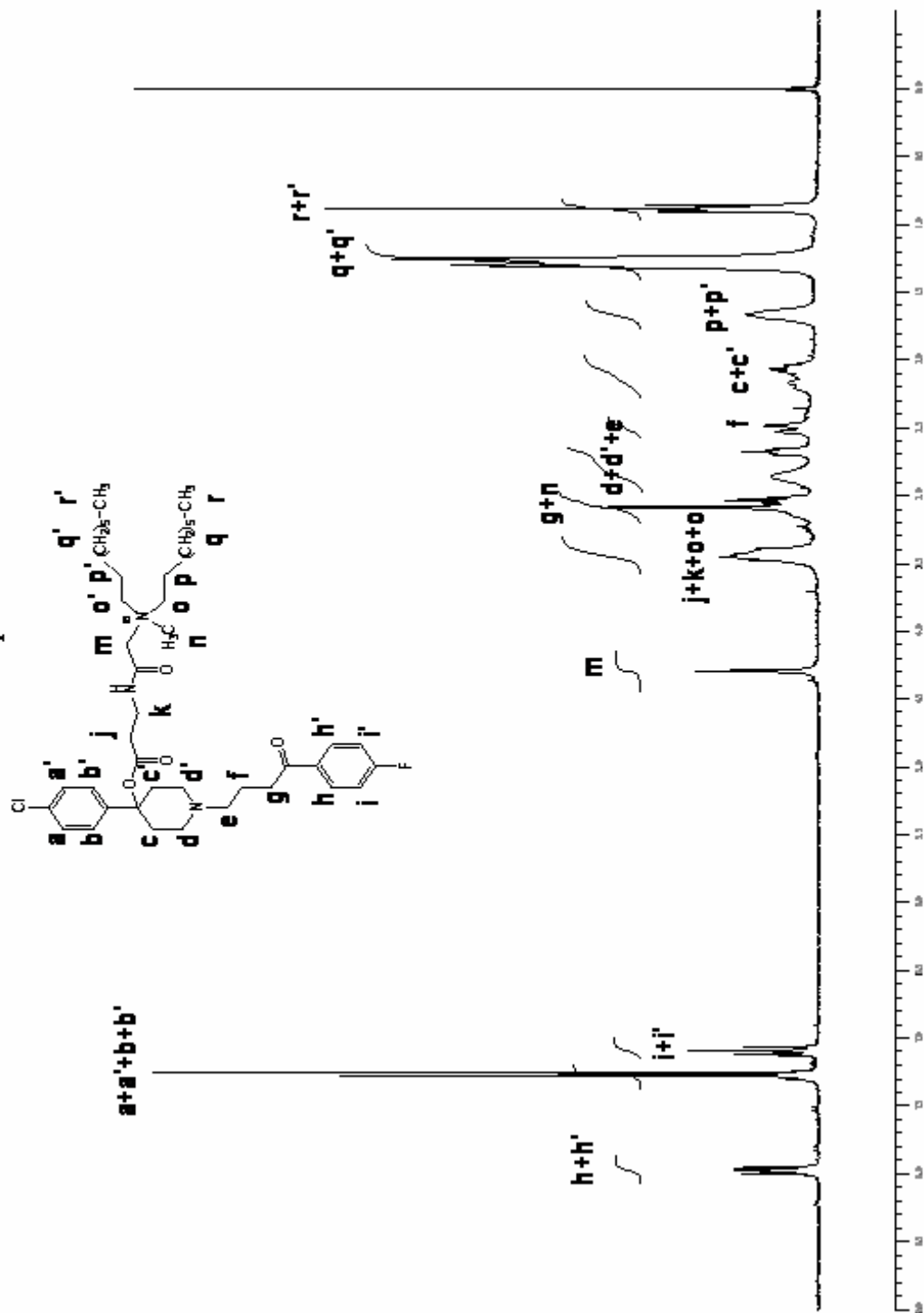
Figure S1: Viability studies of B16F10 cells continuously treated with a range of concentrations of haloperidol (▲), C8-molecule (○), HP + C8 (◆), and HP-C8 (□) respectively for 48 hours. *** denotes $p < 0.001$.

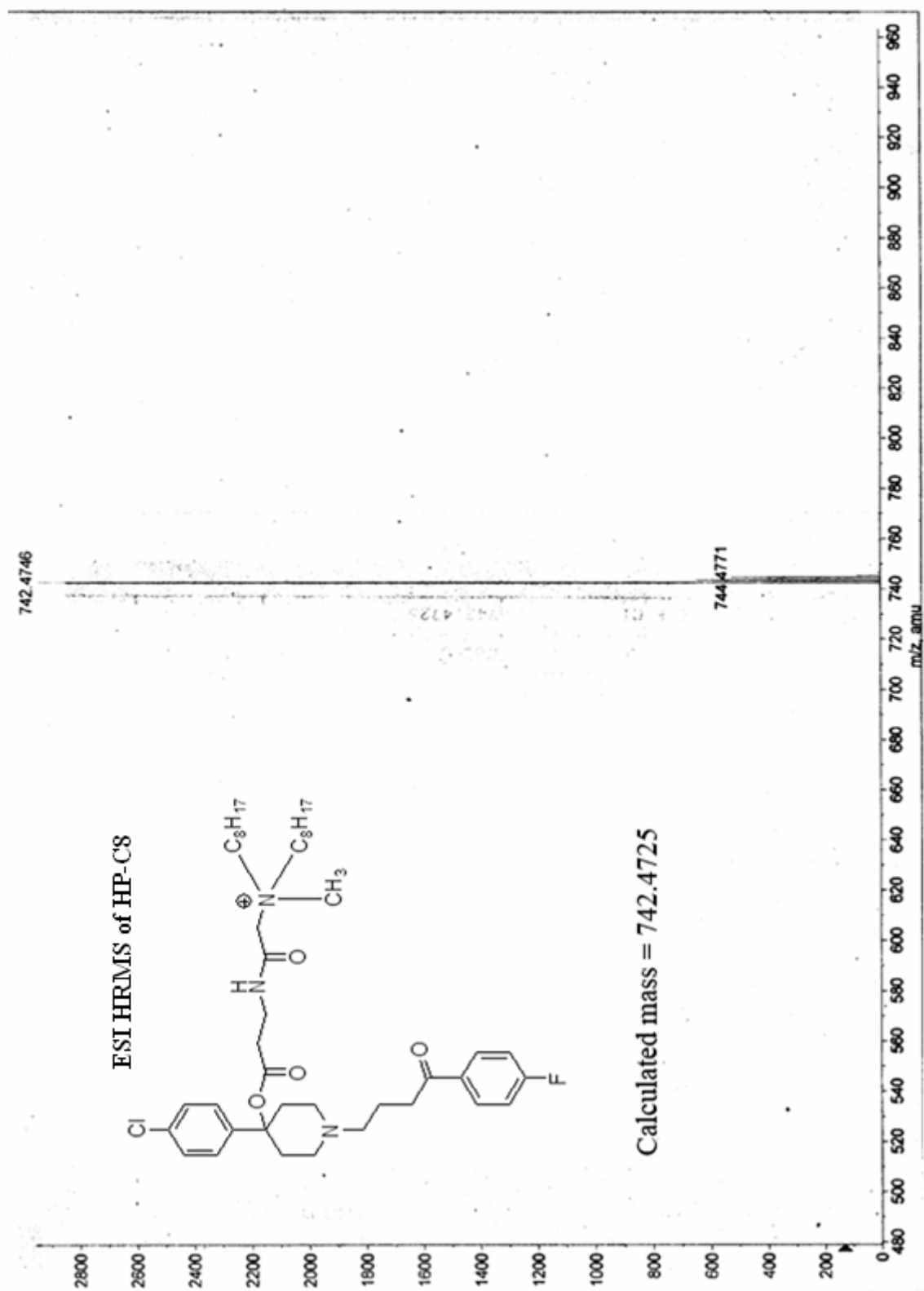
¹H NMR spectrum of HP-C4



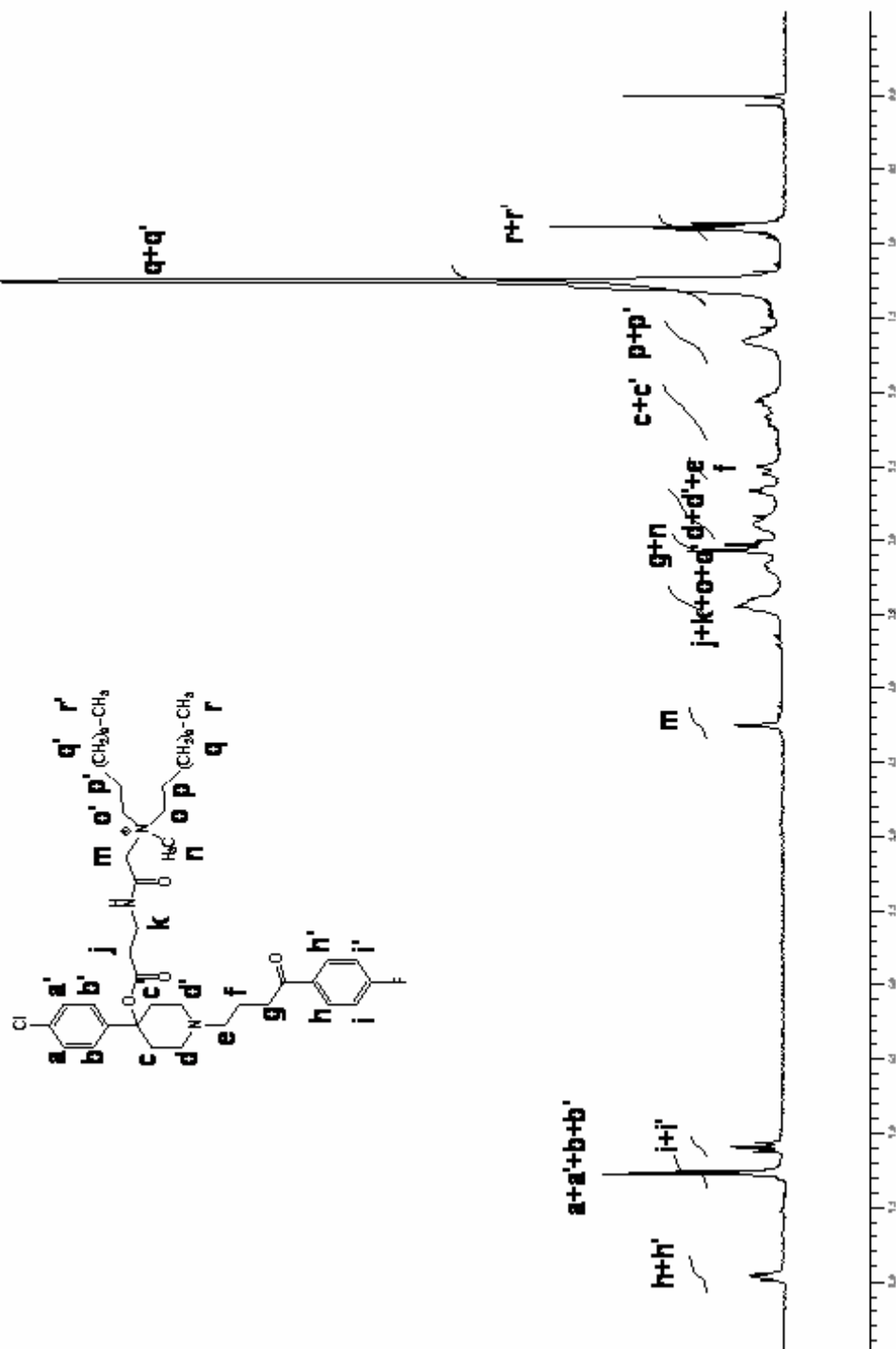


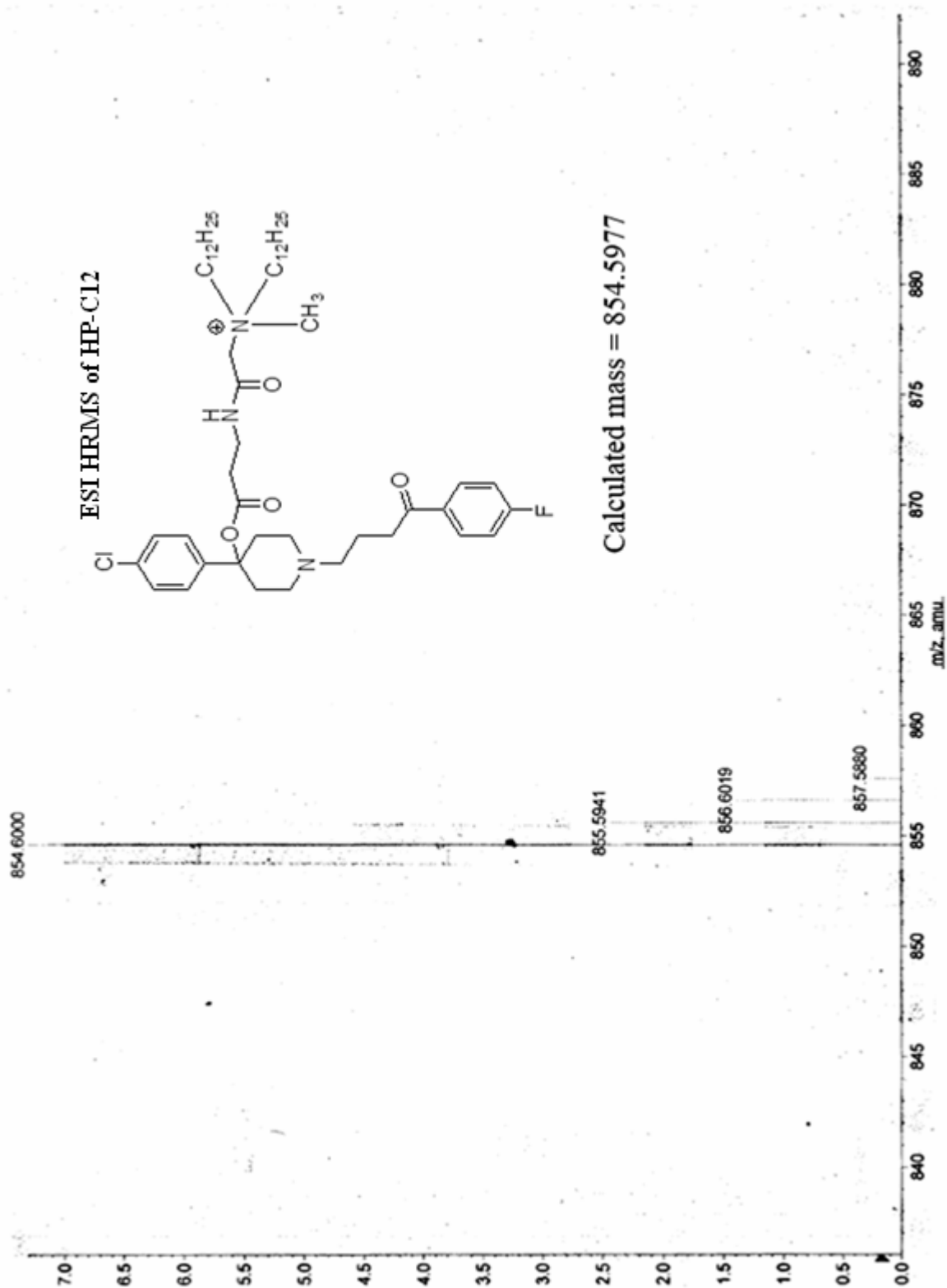
¹H NMR spectrum of HP-C8



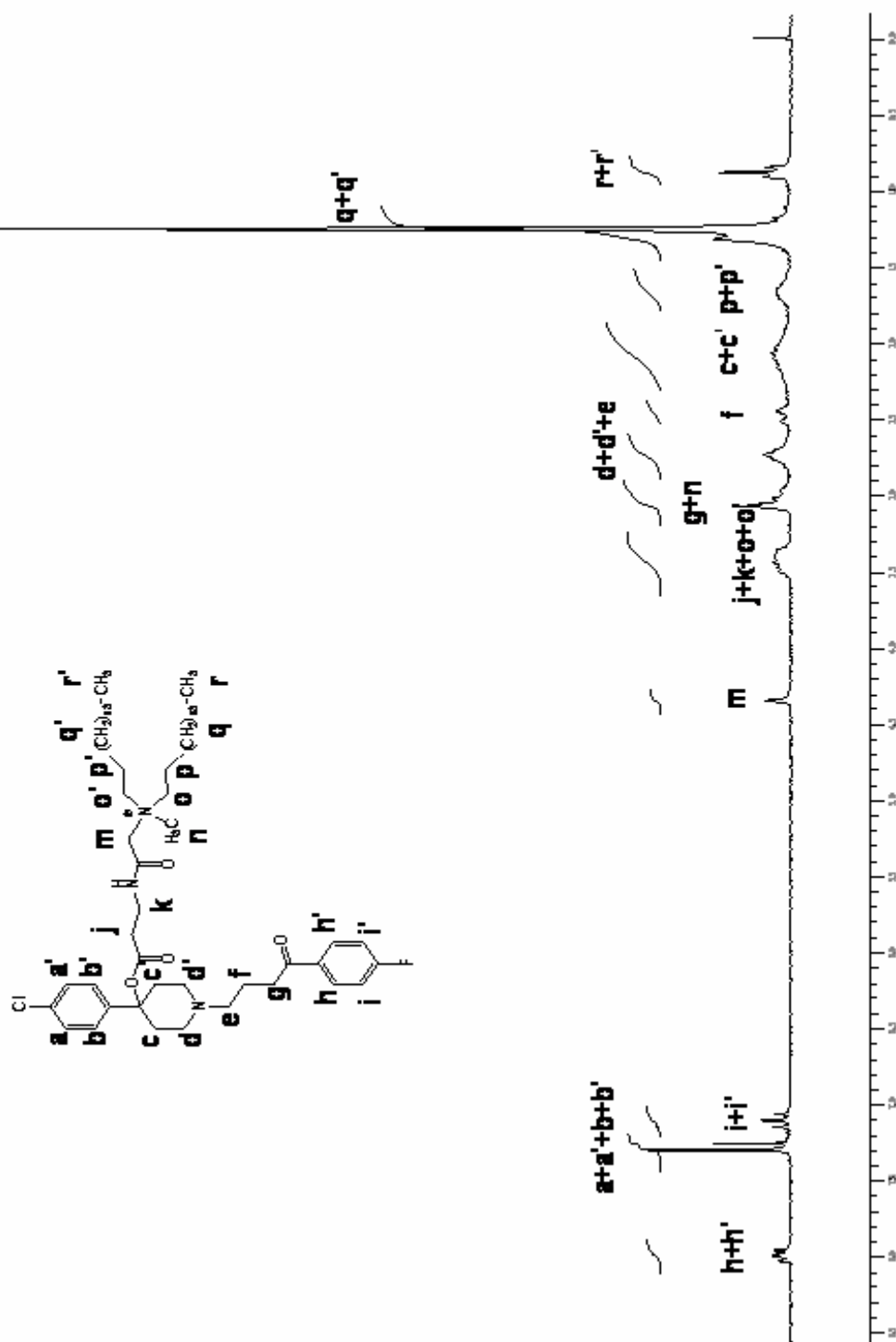


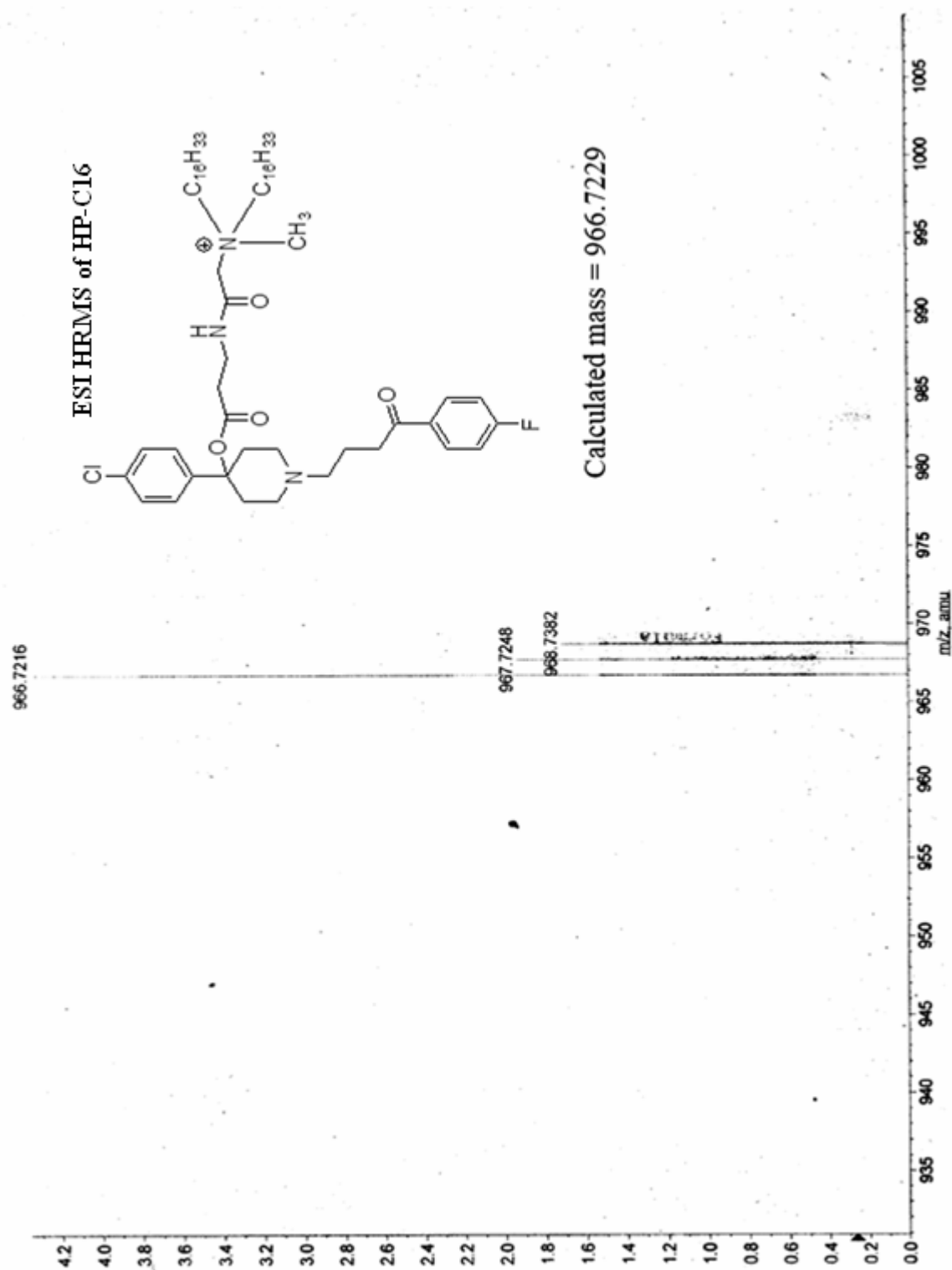
¹H NMR spectrum of HP-C12



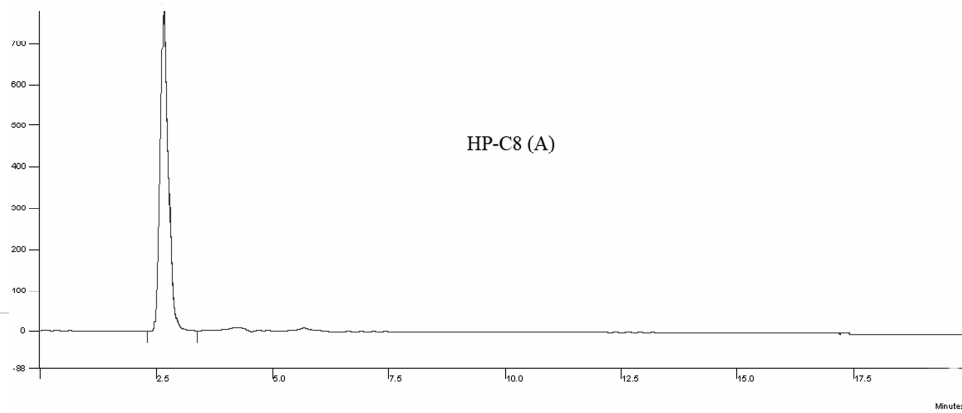
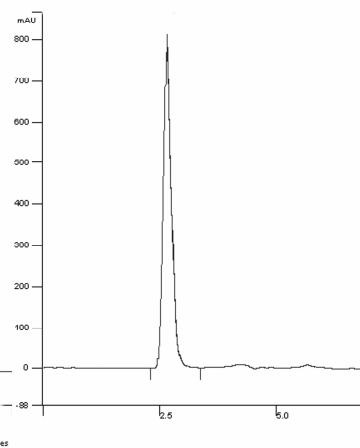
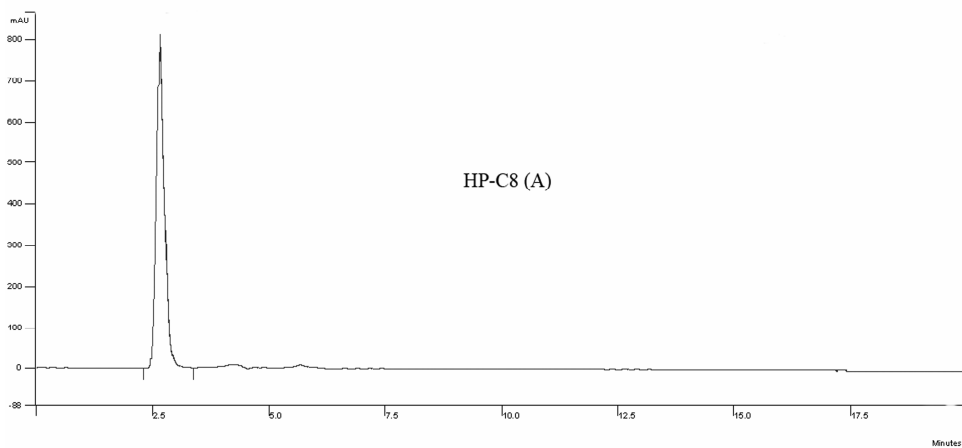
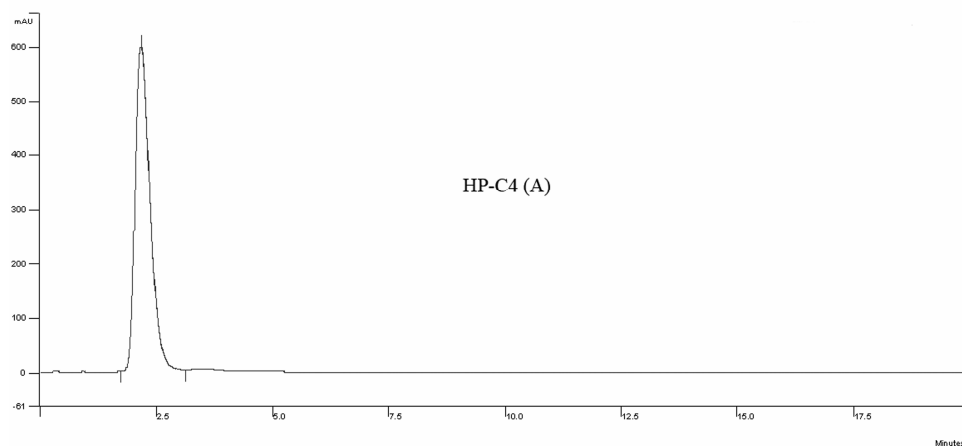


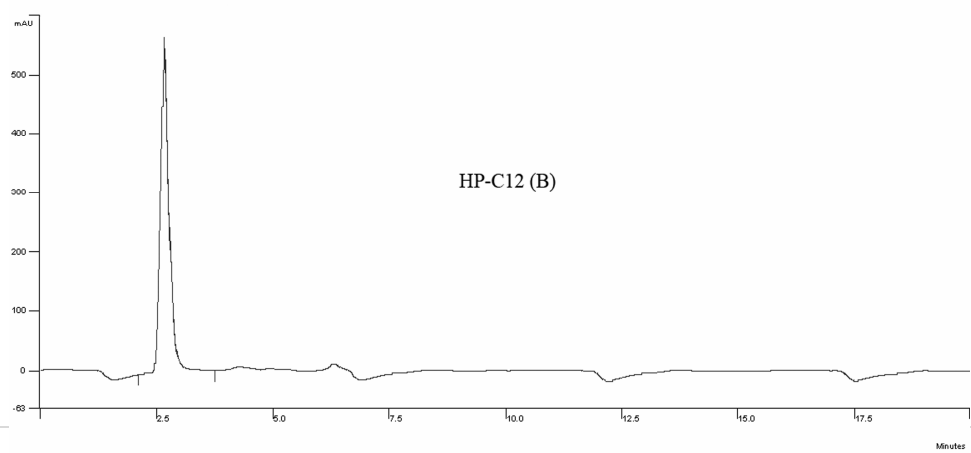
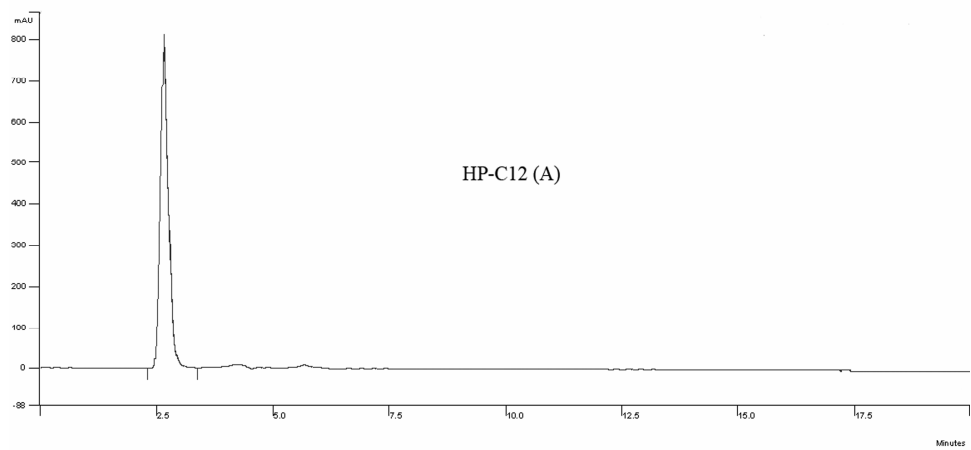
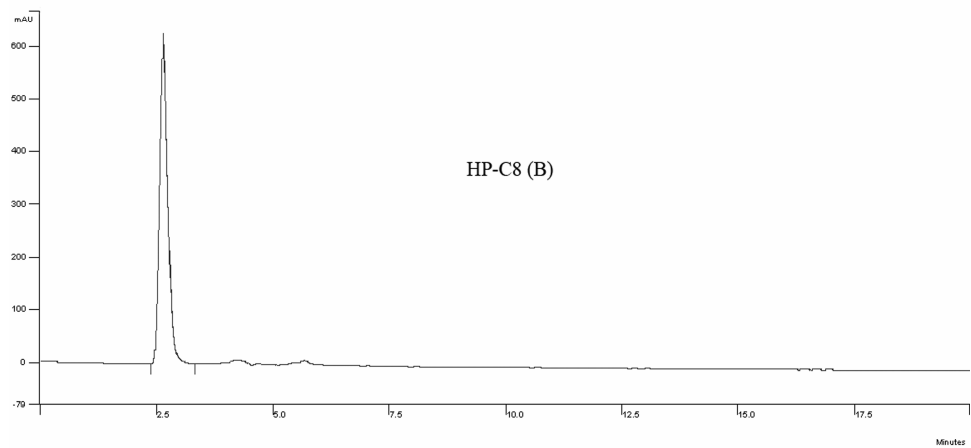
¹H NMR spectrum of HP-C16

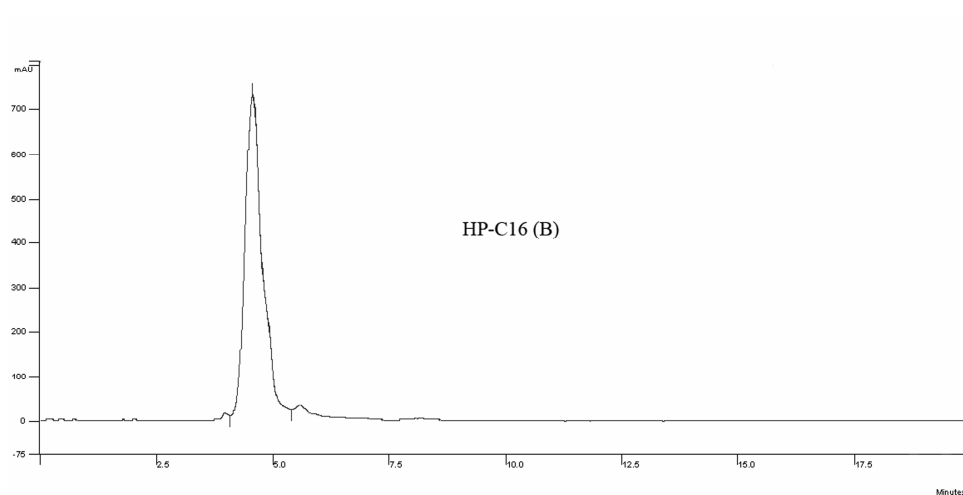
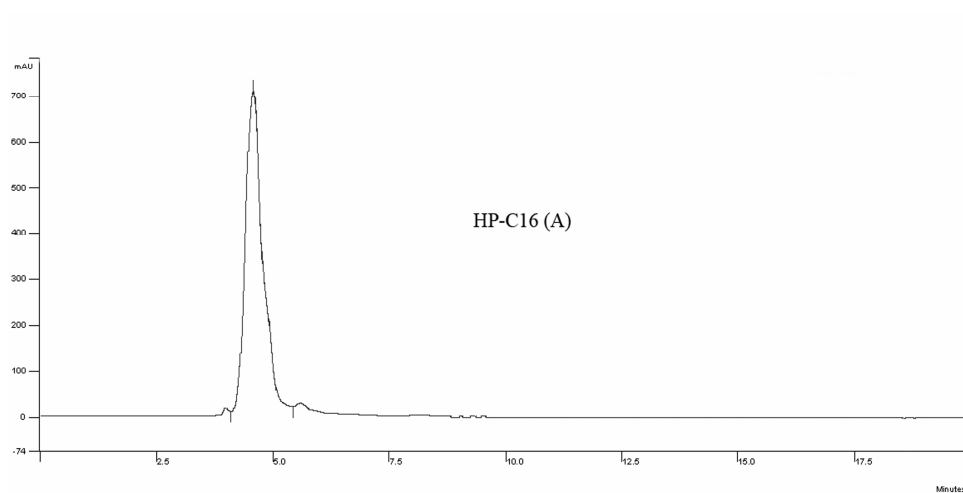




HPLC Diagrams of Synthesized Derivatives







HPLC Conditions:

System : Varian ProStar HPLC

Column : Varian microorb 100-10 BDS column (4.6 mm×250 mm)

Mobile Phase : A- Methanol
B- Methanol: Water (95:5)

Flow Rate : 1ml/min

Column Pressure : 55-60Kg/cm²

Temperature : 25⁰C

Wavelength : 210nm