

Electronic Supplementary Information

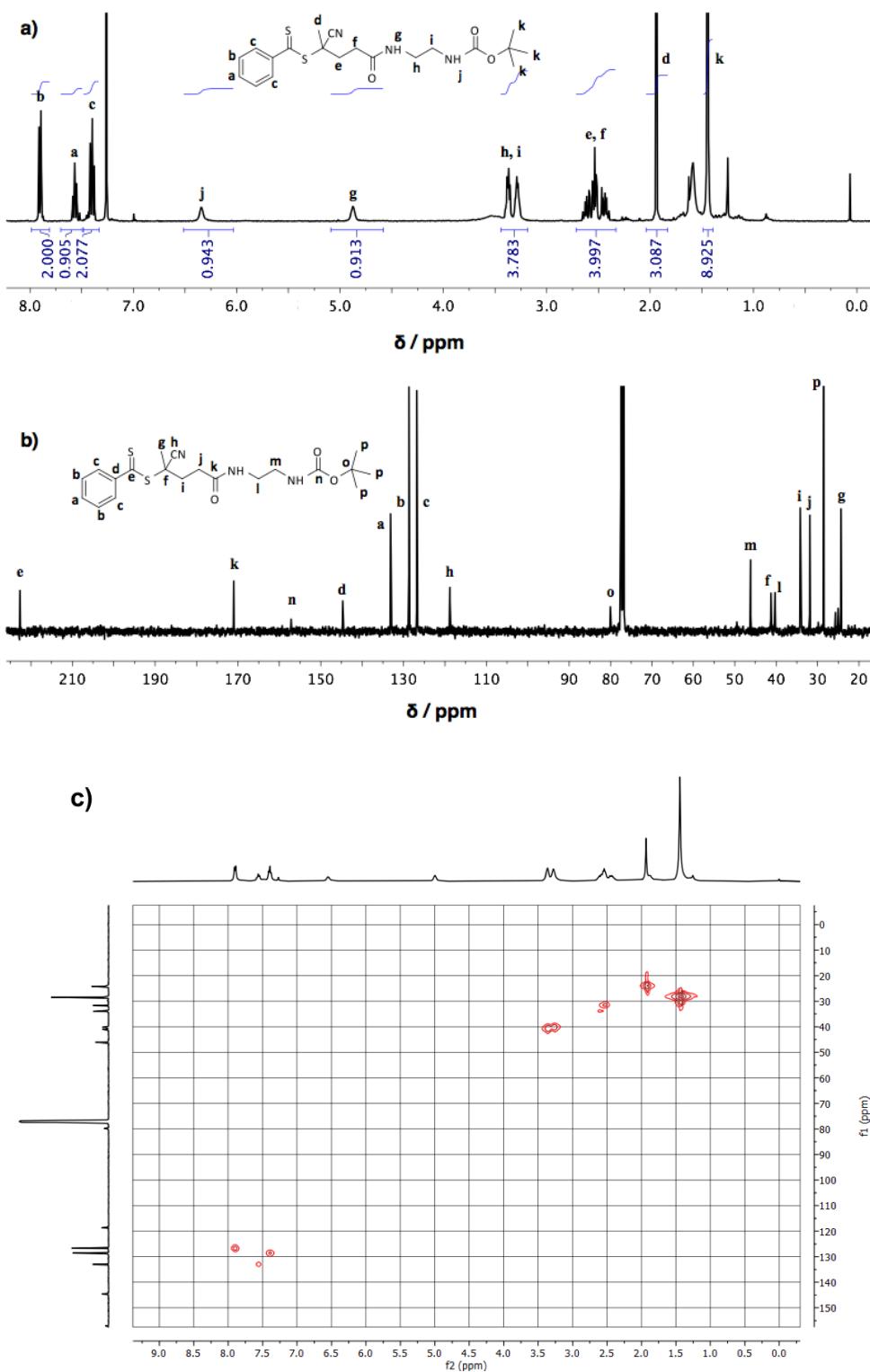


Figure S1. a) ¹H-NMR (400 Hz, CDCl₃), b) ¹³C-NMR (400 Hz, CDCl₃) and c) HMQC-NMR (400 Hz, CDCl₃) recorded for 5-(2-(tert-butoxycarbonylamino)ethylamino)-2-cyano-5-oxopentan-2-yl benzo-dithioate CTA

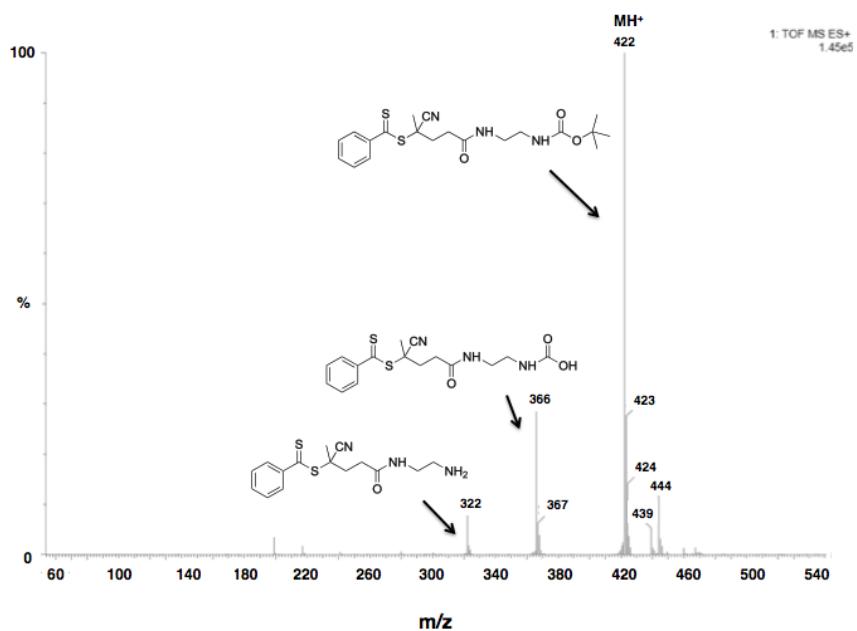


Figure S2. Mass spectrum of *t*-Boc CPDB CTA. ESI-MS: m/z (MH^+ , 100%) 422, and charged fragments generated from the electron ionization.

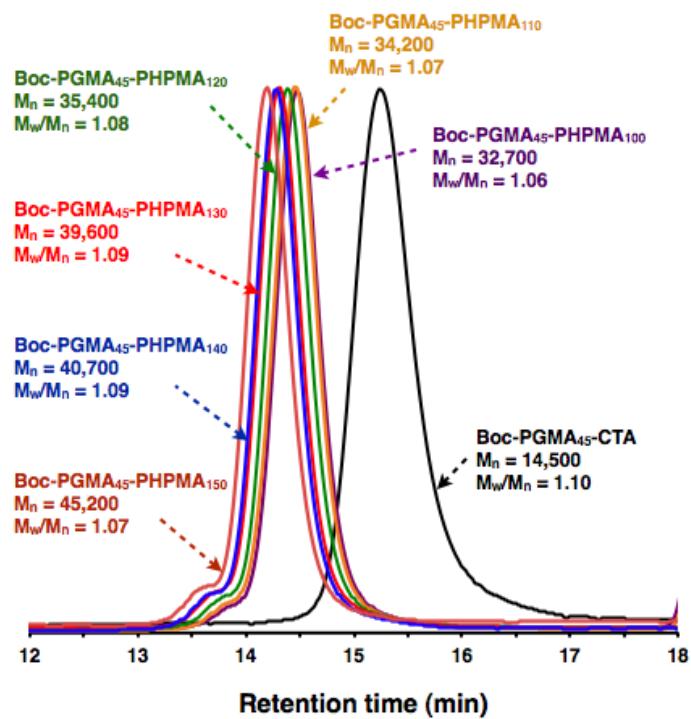


Figure S3. DMF GPC curves indicating the molecular weight evolution with elution time for the RAFT copolymerization of HPMA at 70 °C using *t*-Boc PGMA₄₅ as macro-CTA

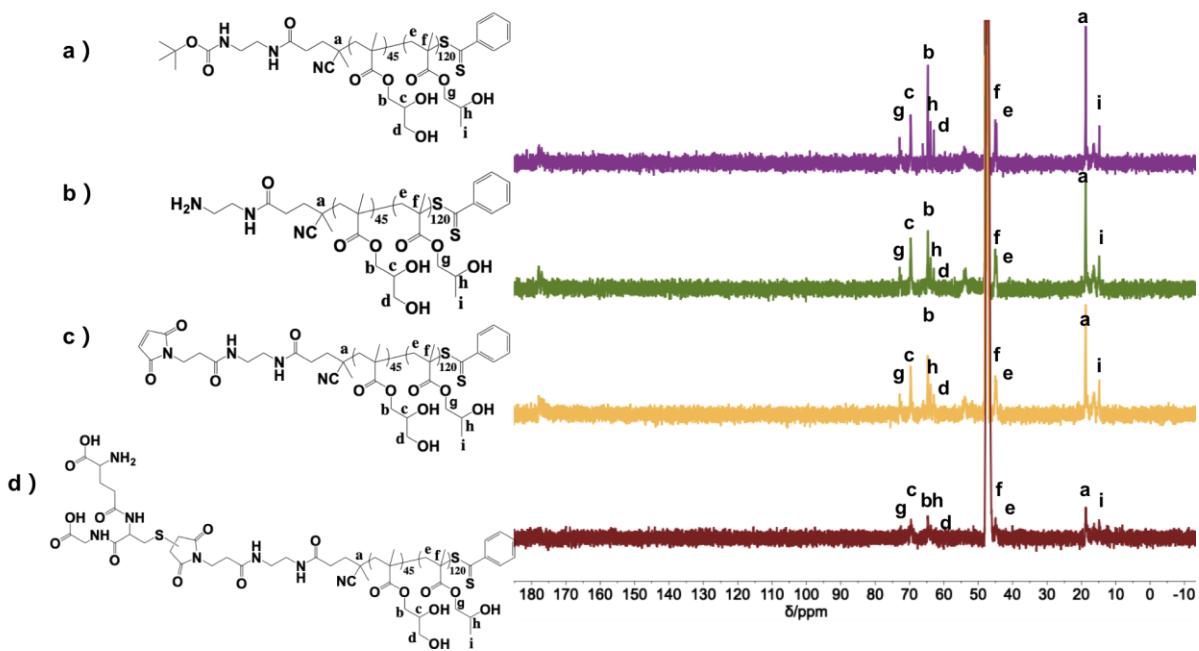


Figure S4. ¹³C-NMR (600 Hz, d-methanol) spectra recorded for a) *t*-Boc protected PGMA₄₅-PHPMA₁₂₀ copolymer RAFT polymerized by using *t*-Boc-PGMA₄₅ macro-CTA in PBS (100 mM, pH 7.4), b) NH₃Cl-PGMA₄₅-PHPMA₁₂₀ generated with HCl (10 M) in methanol, c) Mal-PGMA₄₅-PHPMA₁₂₀ copolymer synthesized by reacting NH₃Cl-PGMA₄₅-PHPMA₁₂₀ with MPA-NHS in anhydrous DMF at room temperature, and d) GSH conjugated PGMA₄₅-PHPMA₁₂₀ copolymer synthesized in 100 mM PBS (100 mM, pH 7.4) at room temperature.

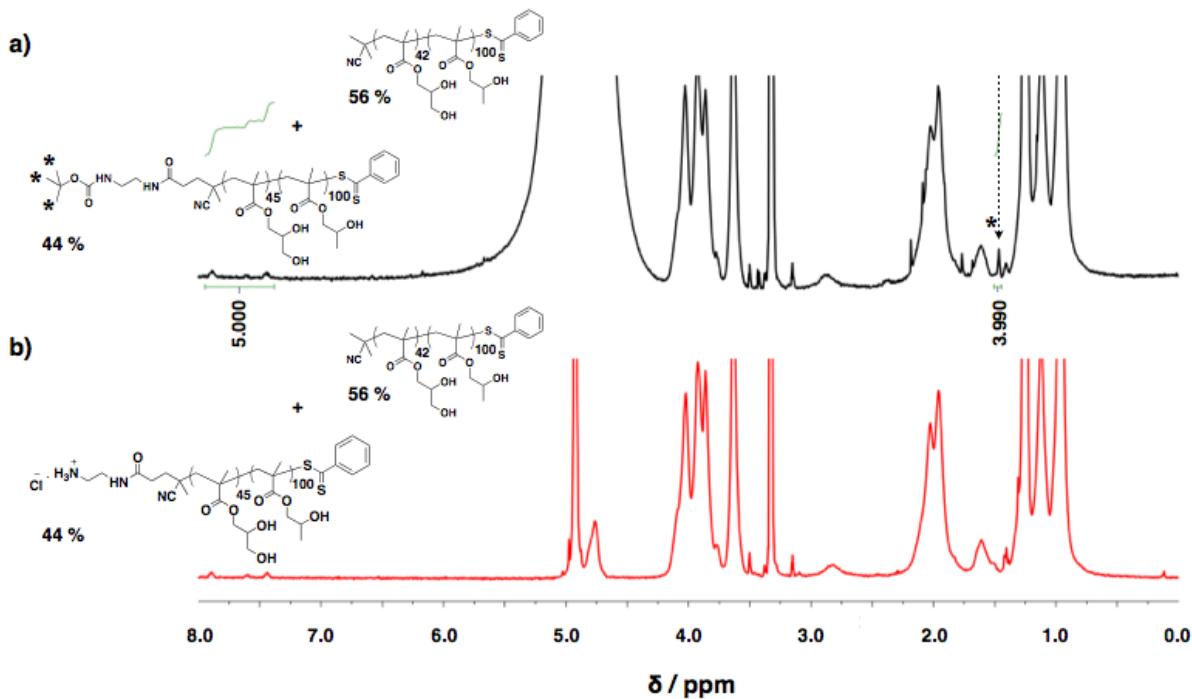


Figure S5. ¹H-NMR spectra of a) (0.44*t*-Boc-PGMA₄₅ + 0.56PGMA₄₂)-PHPMA₁₀₀ and b) (0.44NH₃Cl-PGMA₄₅ + 0.56PGMA₄₂)-PHPMA₁₀₀ copolymers synthesized

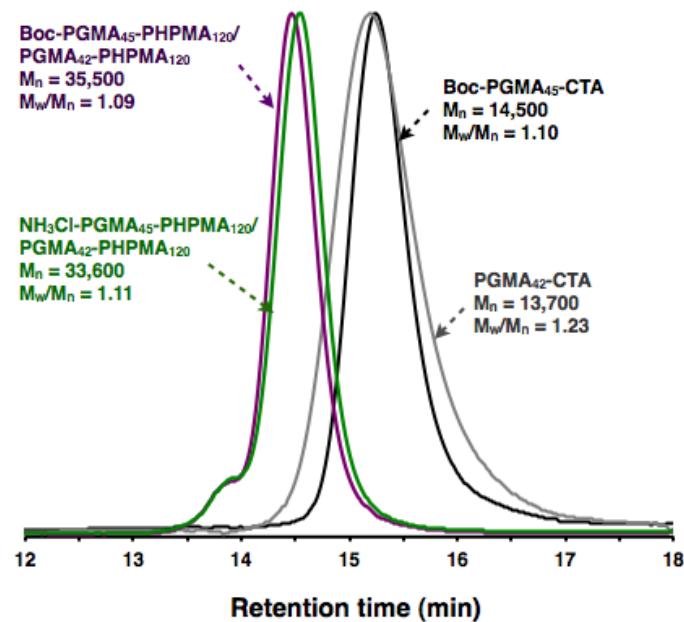


Figure S6. Comparison of DMF GPC traces of *t*-Boc-PGMA₄₅ and PGMA₄₂ macro-CTA, (0.44*t*-Boc-PGMA₄₅ + 0.56PGMA₄₂)-PHPMA₁₀₀ and (0.44NH₃Cl-PGMA₄₅ + 0.56PGMA₄₂)-PHPMA₁₀₀ copolymer worms synthesized