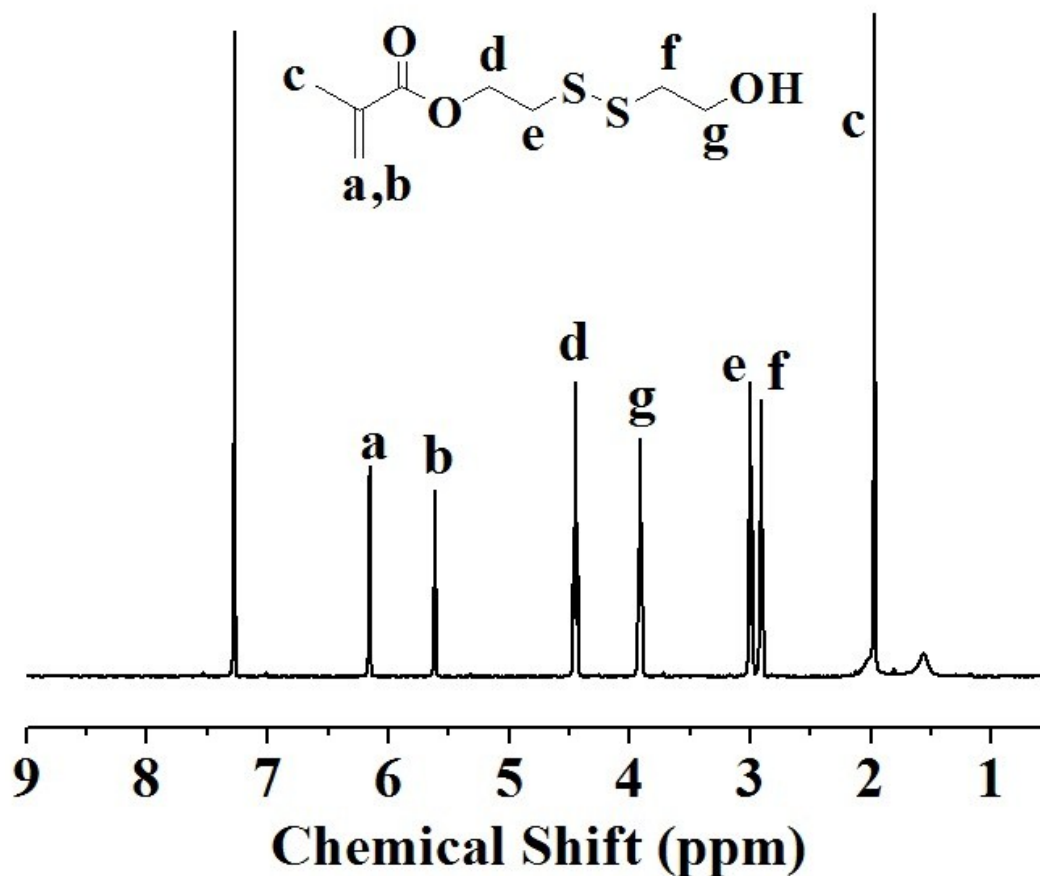


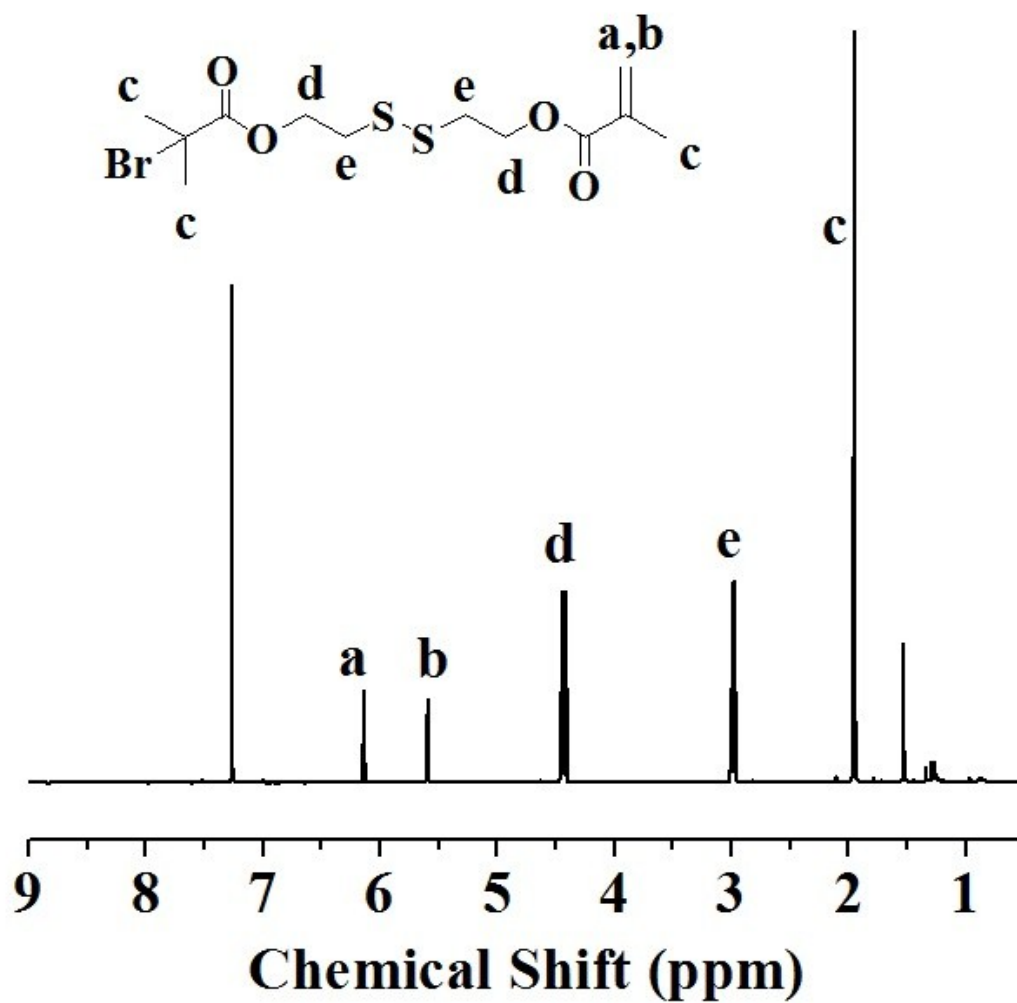
Supporting Information

Synthesis of Amphiphilic Block-Type Macromolecular Brushes with cleavable Pendant Chains and Fabrication of Micelle- Templated Polymer Nanocapsules

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Figures S1. ¹H NMR spectrum of 2-(methacryloyl) oxyethyl-2'-hydroxyethyl disulfide (MAOHD).



Figures S2. ¹H NMR spectrum of 2-(2'-bromoisobutyryloxy)ethyl 2''-Methacryloyloxyethyl disulfide (BiBOEMAD).

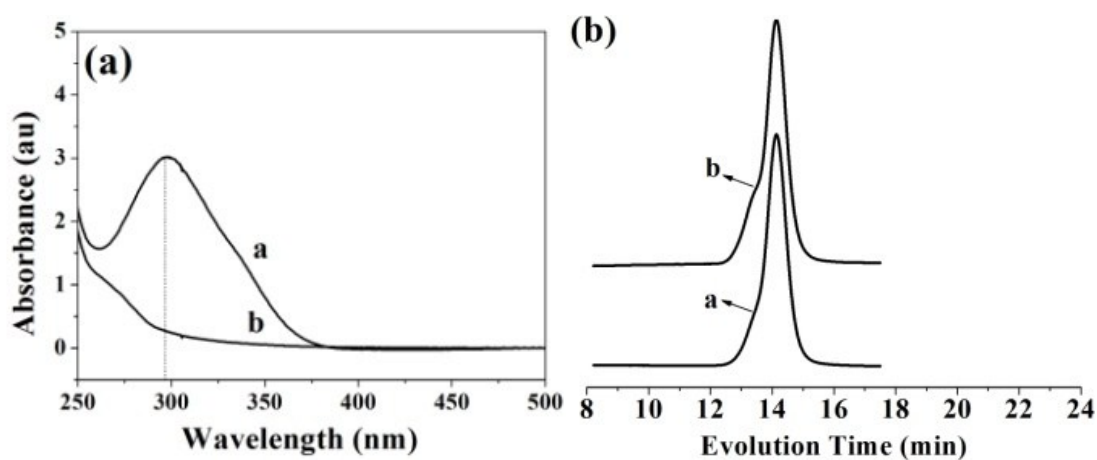


Fig. S3. (a) UV-vis spectra of POEGMA₄₂-*b*-P(*t*BMA₂₀₀-BiBOEMD₇) block copolymer prepared by two-step RAFT polymerization (spectrum a) and the block

copolymer after treatment with AIBN (spectrum b). (b) GPC traces of POEGMA₄₂-*b*-P(*t*BMA₂₀₀-BiBOEMD₇) block copolymer (curve a) and the block copolymer after treatment with AIBN (curve b).