

Supporting Information

Brush Macromolecules with Thermo-Sensitive Coil Backbones and Pendant Polypeptide Side Chains: Synthesis, Self-assembly and Functionalization

Zheng Wei, Shuzhe Zhu and Hanying Zhao

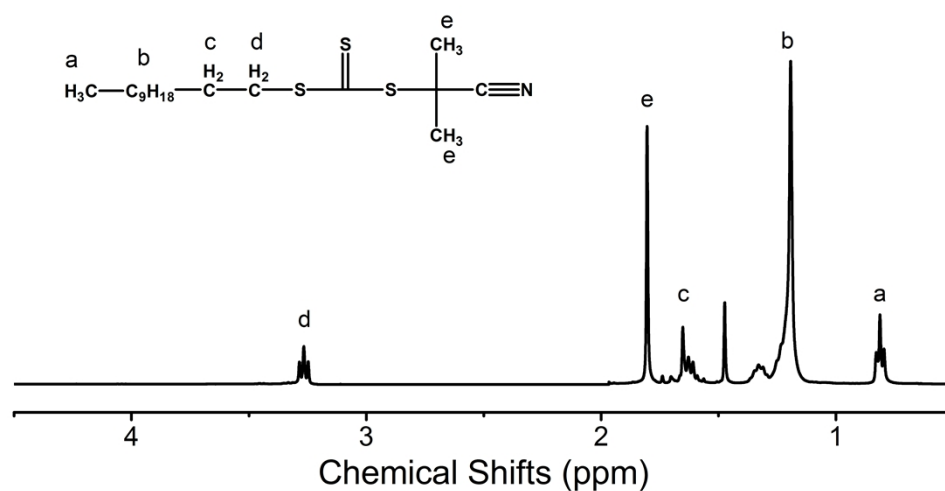


Figure S1. ^1H NMR spectrum of RAFT agent 2-cyanopropan-2-yl decyl carbonotrithioate.

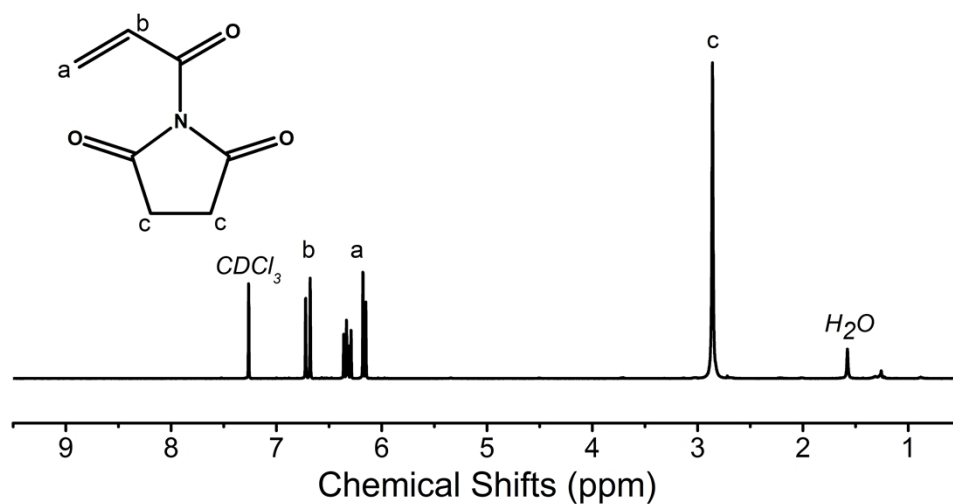


Figure S2. ¹H NMR spectrum of N-acryloxysuccinimide.

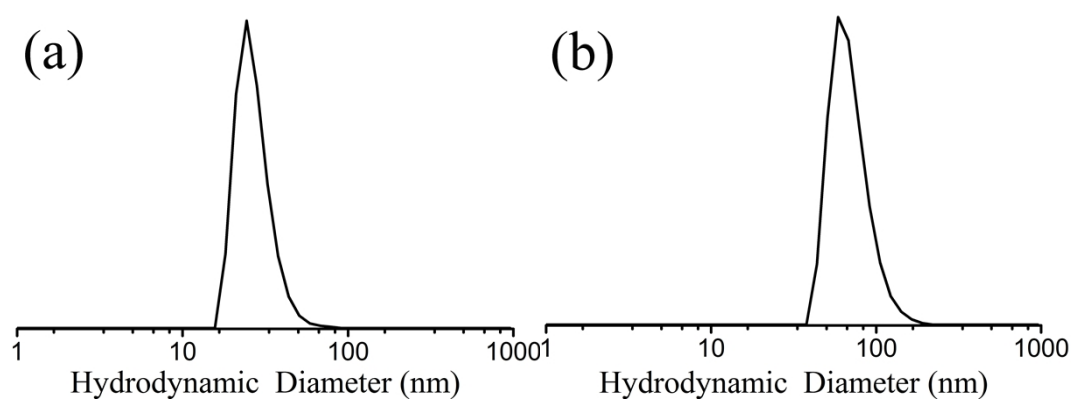


Figure S3. DLS curves of self-assembled aggregates formed by (a) poly(NIPAM₅₅-co-NAS₈)-g-PBLG₁₀ and (b) poly(NIPAM₅₅-co-NAS₈)-g-PBLG₄₀ in water.

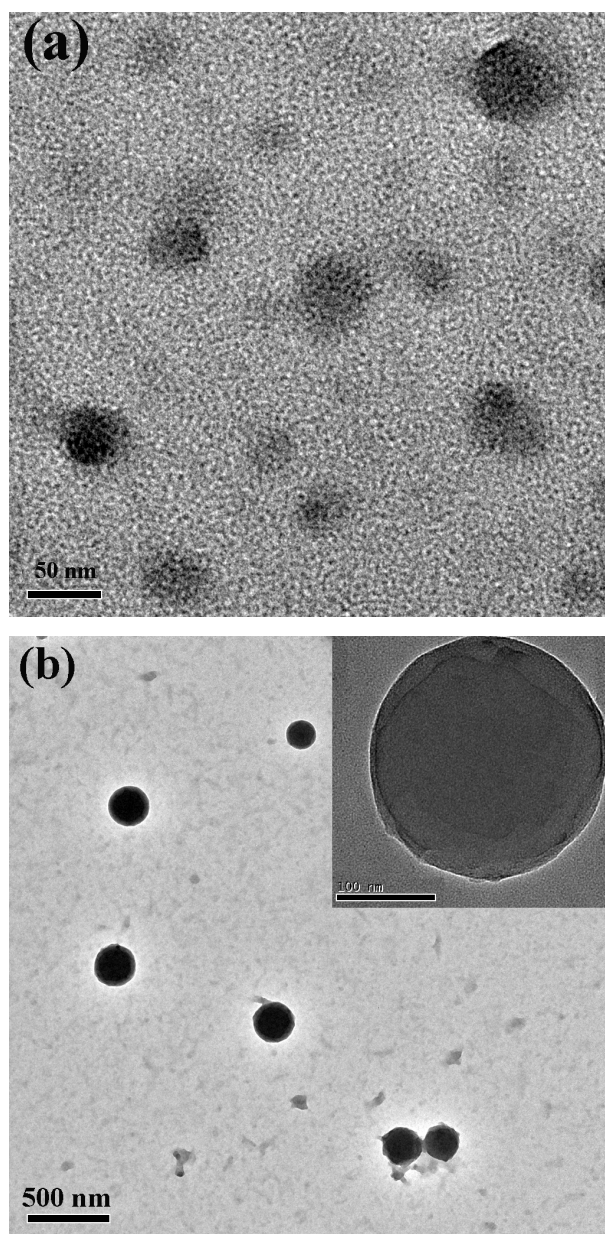


Figure S4. TEM images of self-assembled aggregates of (a) poly(NIPAM₄₈₀-co-NAS₆₀)-*graft*-PBLG₁₀ and (b) poly(NIPAM₄₈₀-co-NAS₆₀)-*graft*-PBLG₂₀ in water.

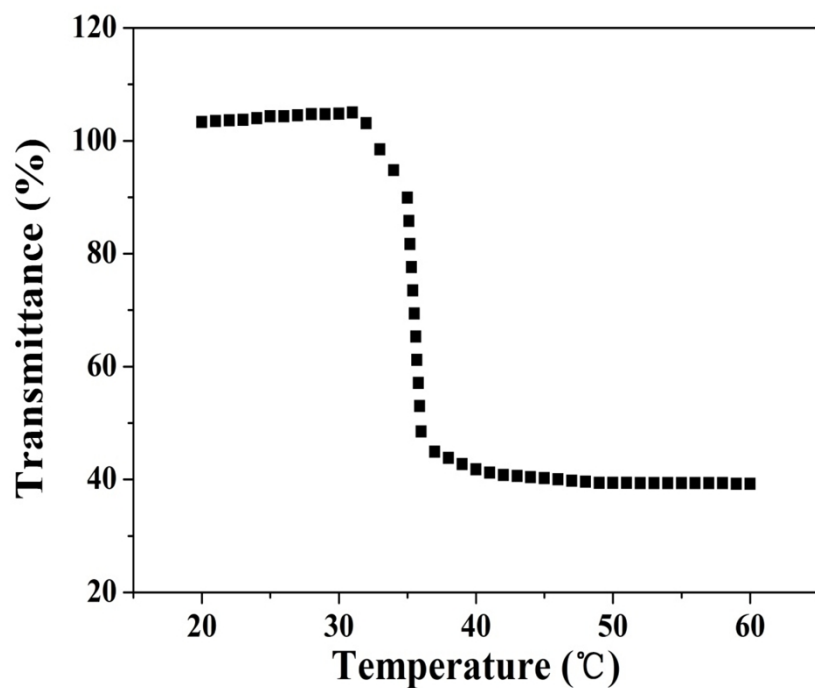


Figure S5. Transmittance change of aqueous solution of poly(NIPAM₄₈₀-*co*-NAS₆₀-NH-Boc) with temperature.

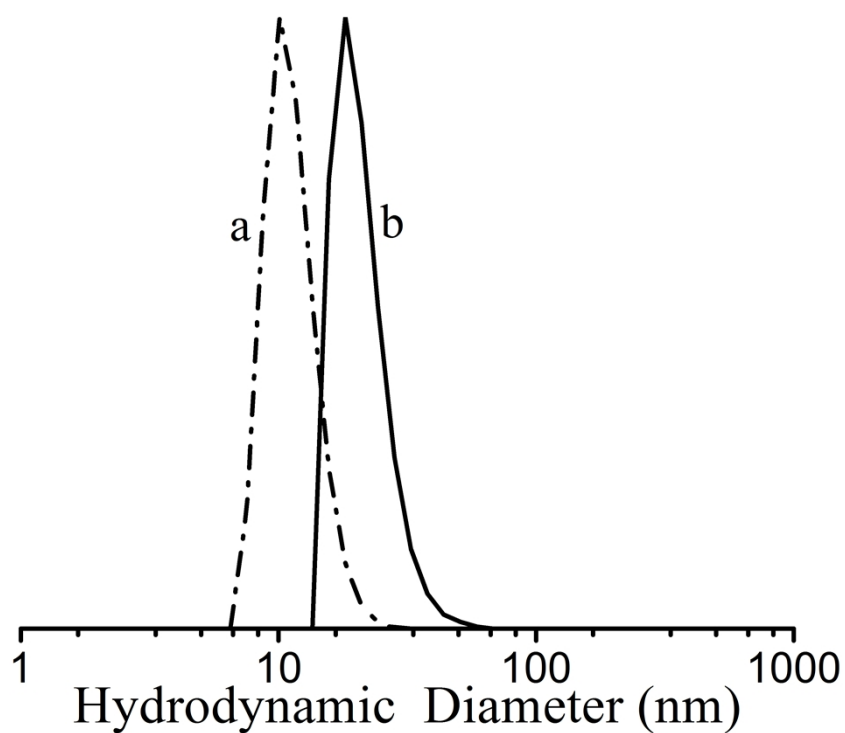


Figure S6. DLS curves of self-assembled aggregates formed by poly(NIPAM₄₈₀-*co*-NAS₆₀)-*graft*-PBLG₁₀ brush macromolecules at 25 (a) and 50 °C (b) in aqueous solution.

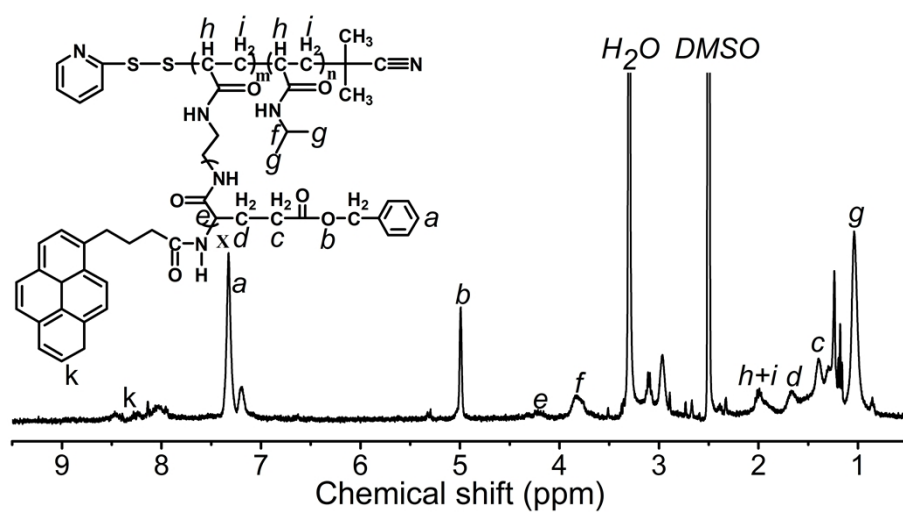


Figure S7. ^1H NMR spectrum of the fluorescence-modified brush polymer, $\text{py-poly}(\text{NIPAM}_{55}\text{-co-NAS}_8)\text{-g-PBLG}_{10}$.