Electronic Supporting Information

"Y"-Shape Armed Amphiphilic Star-like Copolymer: Design, Synthesis and Dual-Responsive Unimolecular Micelle Formation for Controlled Drug Delivery

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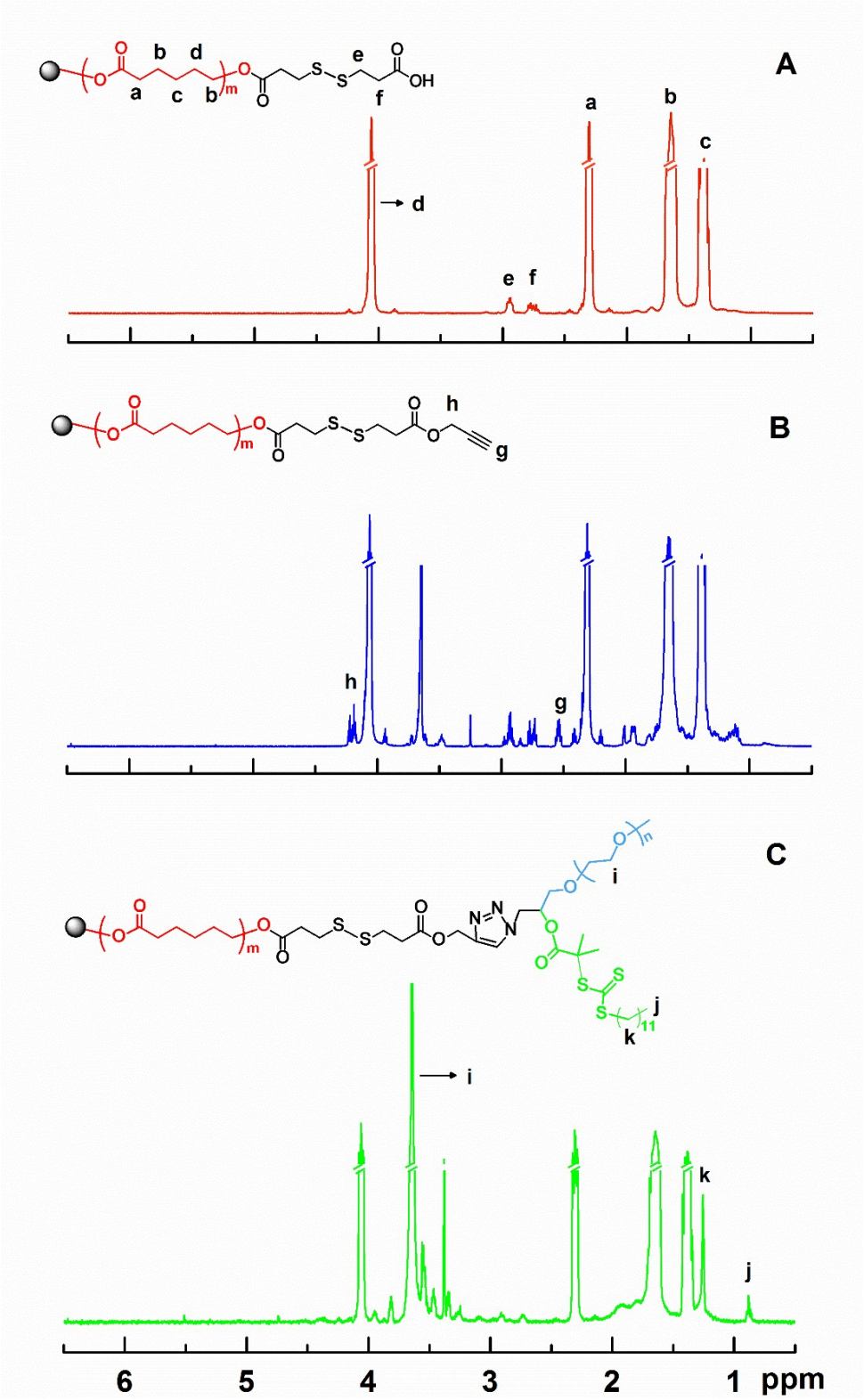

Figure S1. ^{1}H NMR spectra of CD-PCL-SS-COOH (A), CD-PCL-SS-alkyne (B) and CD-PCL-SS-(RAFT)PEG (C) in $CDCl_3$.

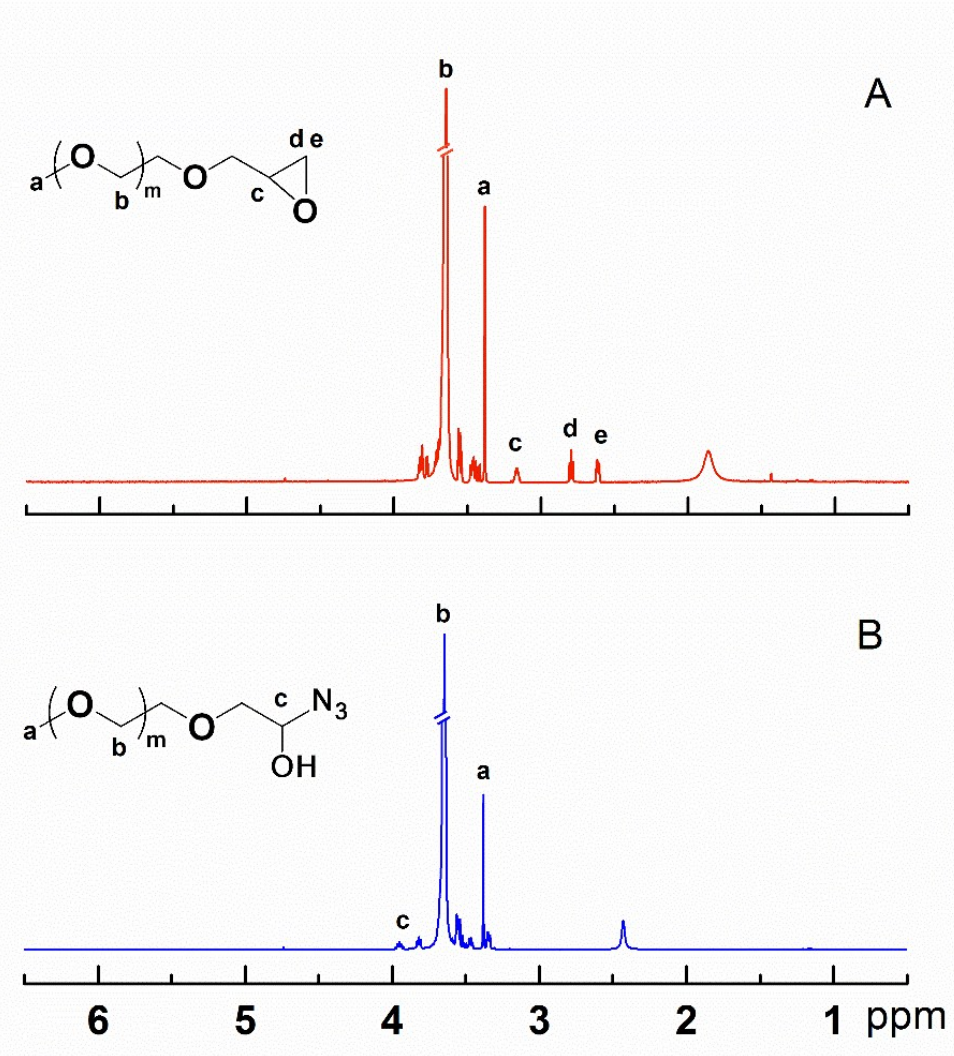

Figure S2. ^{1}H NMR spectra of PEG-epoxy (A) and PEG-N_3(OH) (B) in $CDCl_3$.

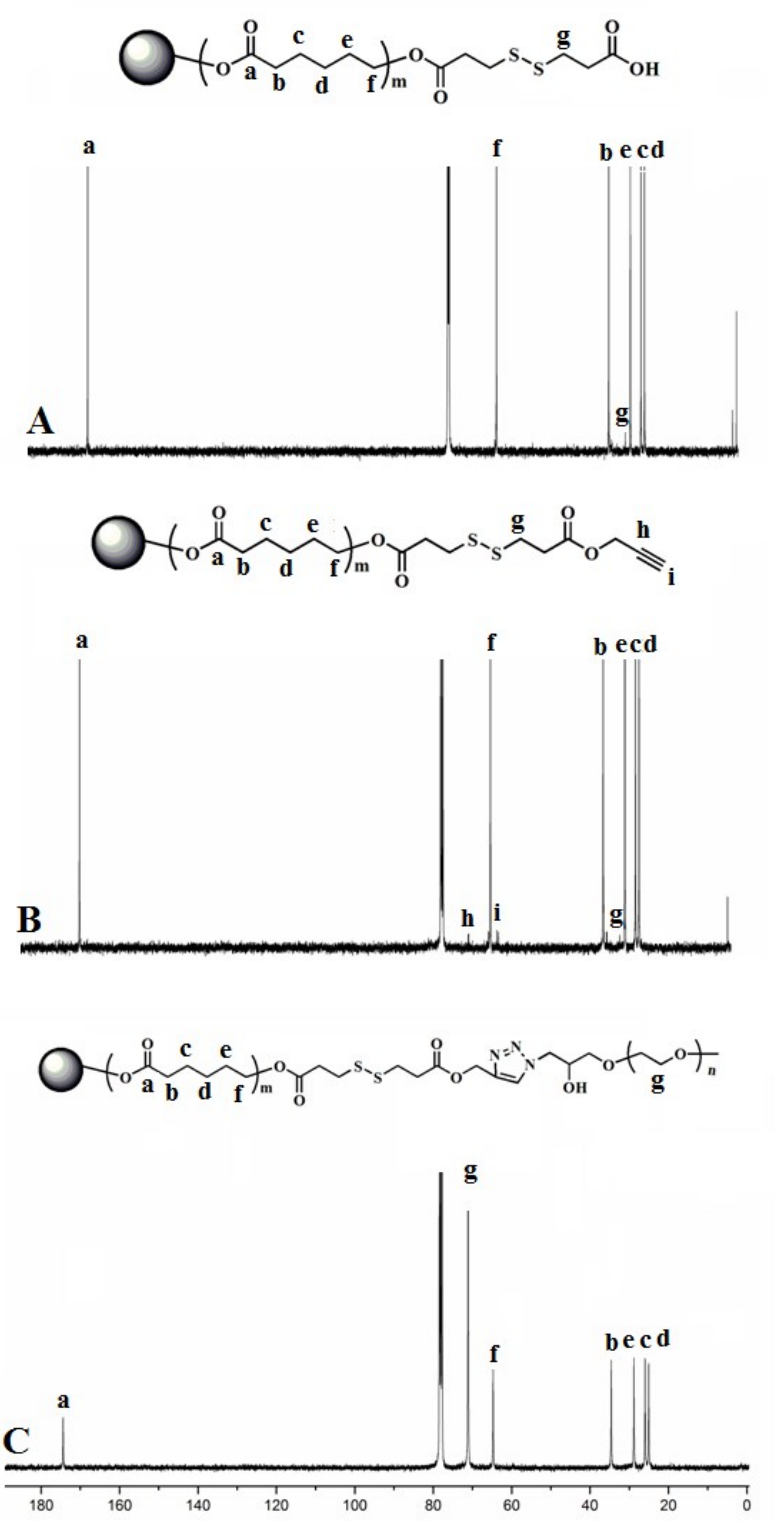

Figure S3. ^{13}C NMR spectra of CD-PCL-SS-CCOH (A), CD-PCL-SS-Alkyne (B) and CD-PCL-PEG (C) in $CDCl_3$.

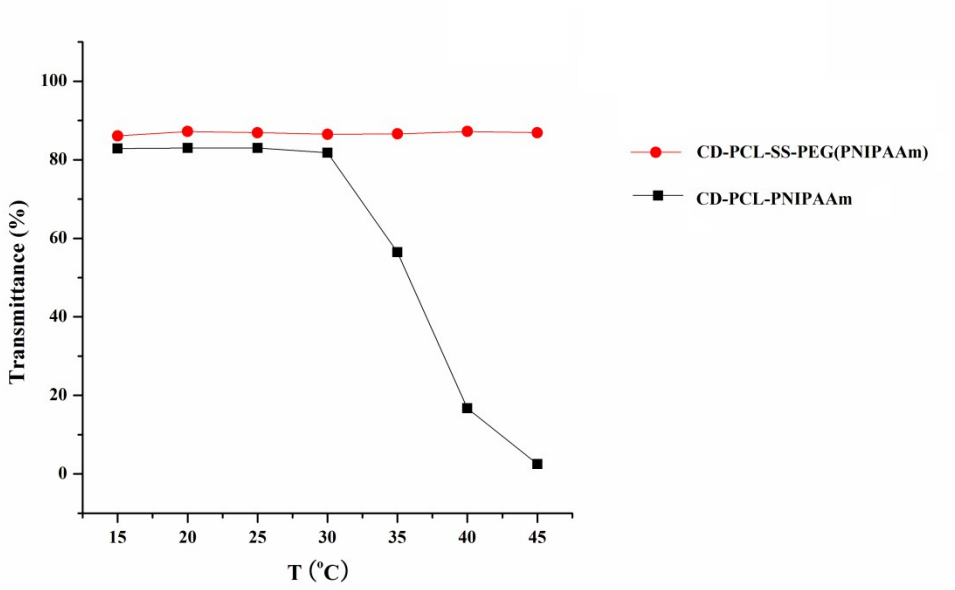

Figure S4. Thermo-responsive behavior of CD-PCL-SS-PEG(PNIPAM) and CD-PCL-PNIPAM copolymer aqueous solutions as a function of temperature. Polymer concentration at 2.0 mg/mL was used in the measurements.

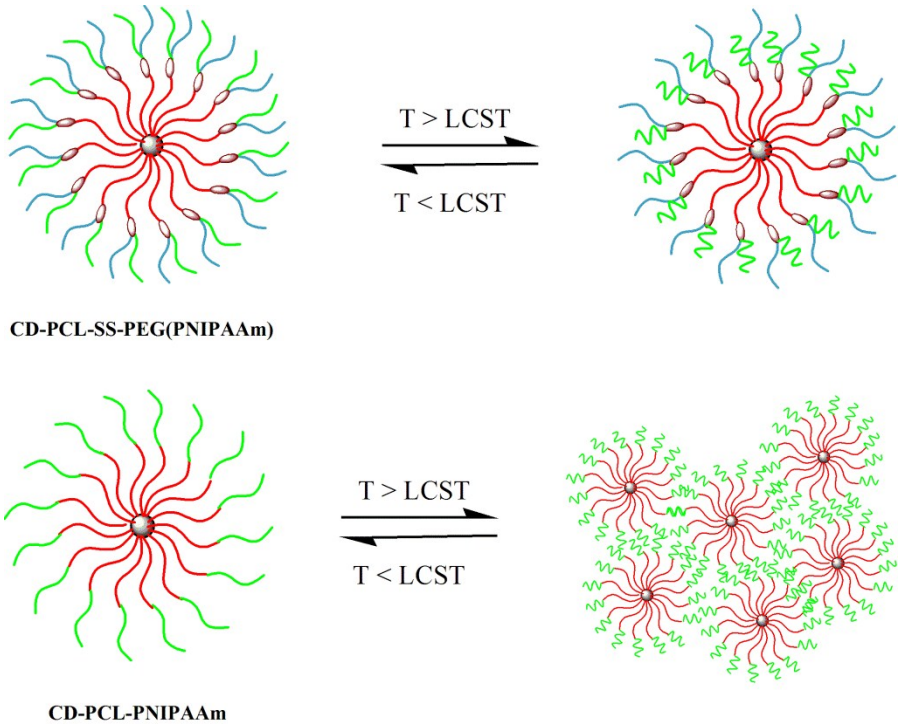

Figure S5. Schematic illustration showing the proposed thermo-responsive mechanism of CD-PCL-SS-PEG(PNIPAM) and CD-PCL-SS-PNIPAM copolymer aqueous solutions.