Electronic Supplementary Material (ESI) for Polymer Chemistry.

Supporting information

Aqueous Solution Behaviour of Novel Water-Soluble Amphiphilic Copolymers with Elevated Hydrophobic Unit Content

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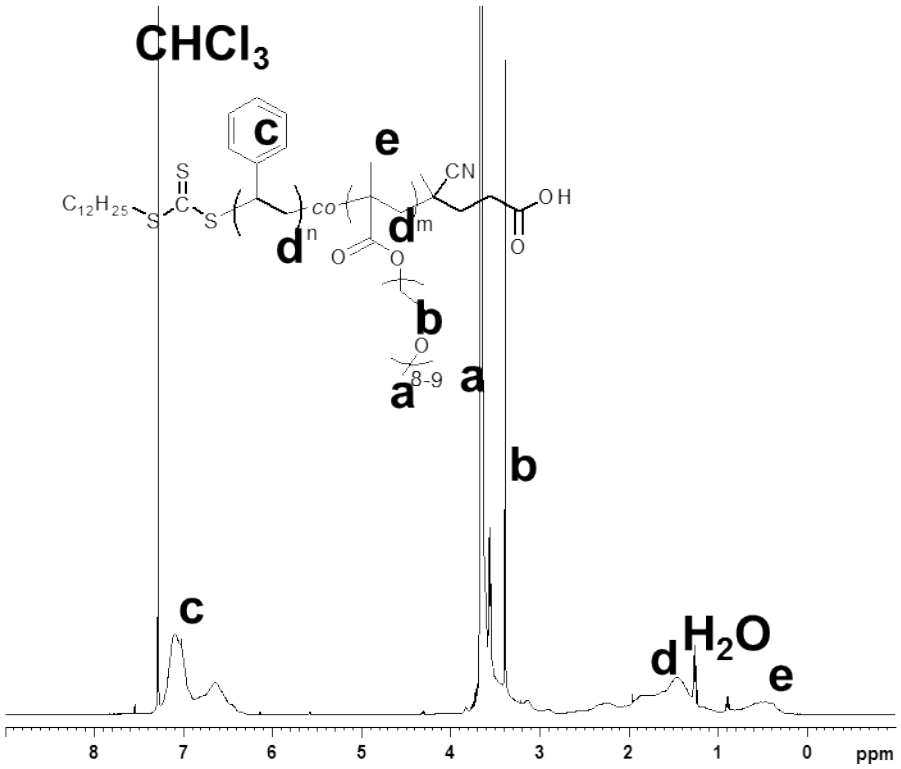

Figure S1. ^{1}H NMR spectrum of copolymer STAT1 recorded in $CDCl_3$.

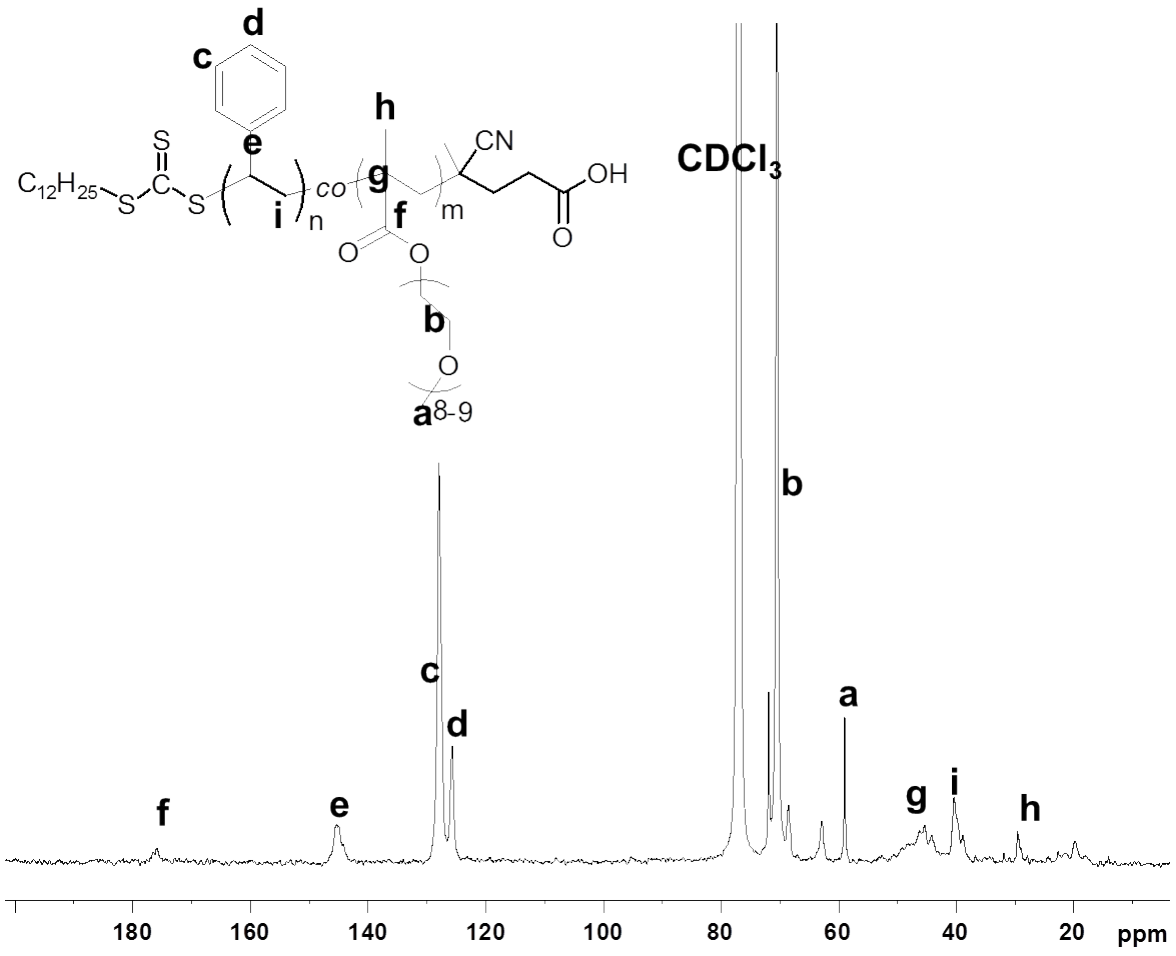

Figure S2. ^{13}C NMR spectrum of poly(OEGMA-*stat*-styrene) in $CDCl_3$.

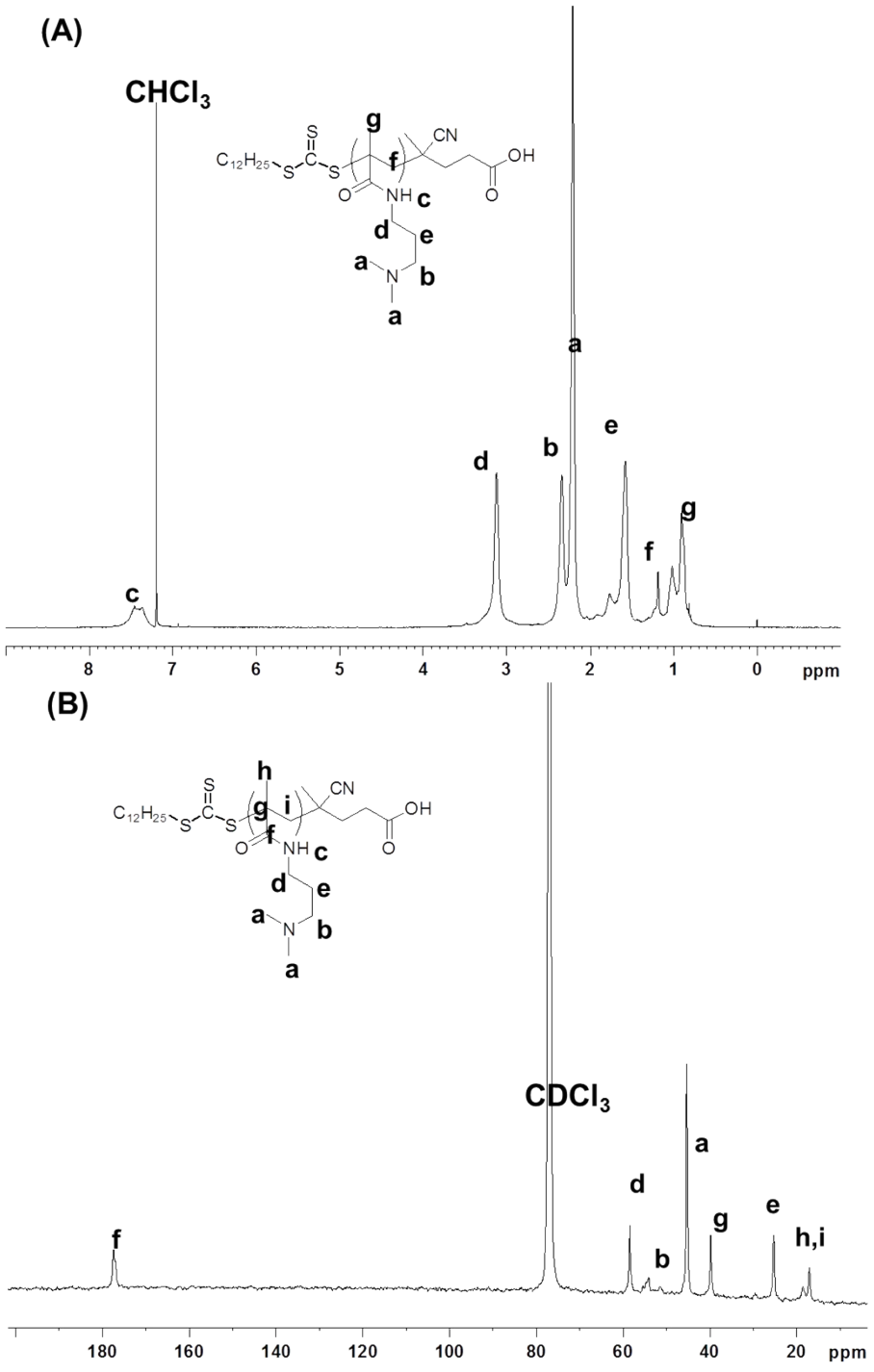

Figure S3. ^{1}H NMR (A) and ^{13}C NMR (B) spectra of P(DMAPMA) in $CDCl_3$.

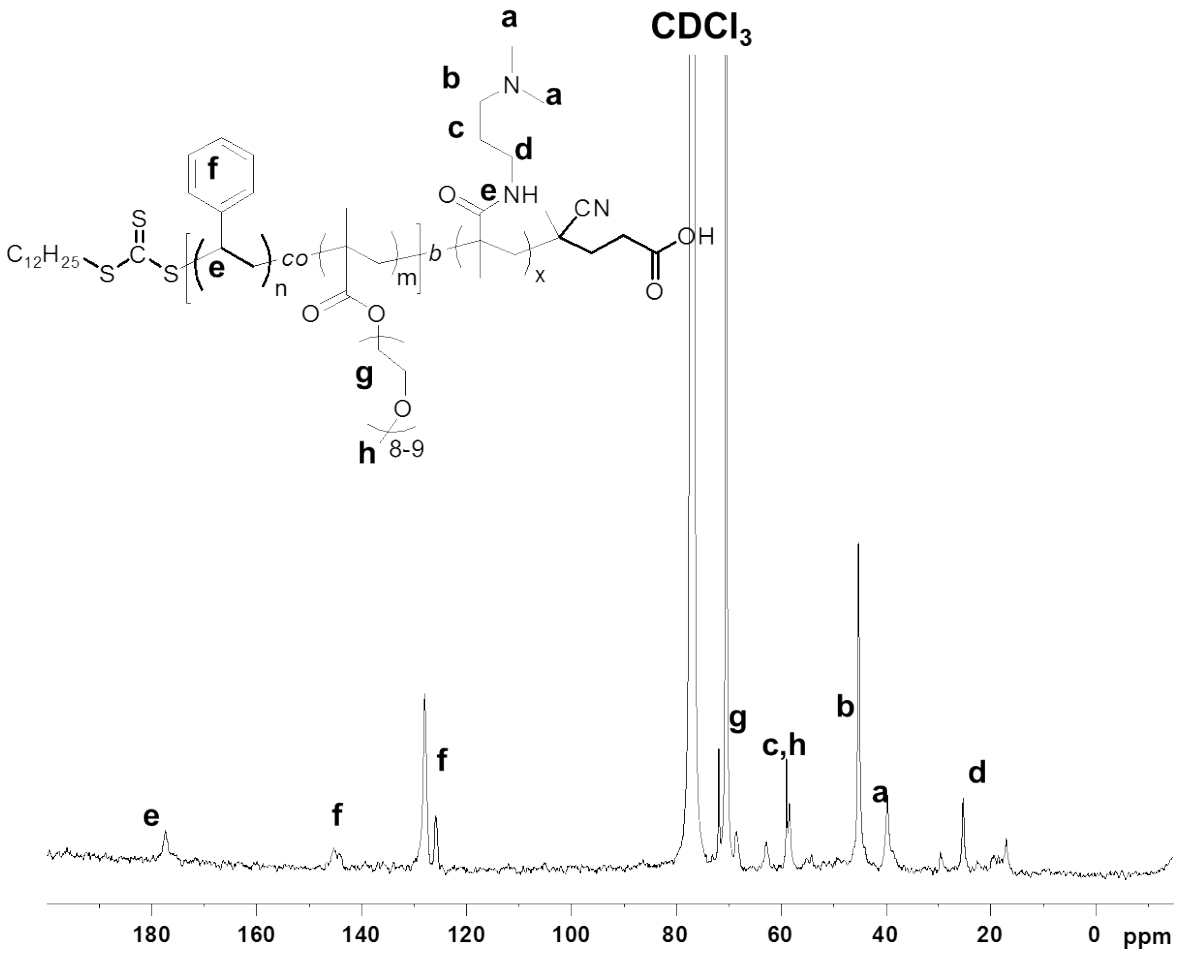

Figure S4. ^{13}C NMR spectrum of poly(OEGMA475-*stat*-styrene)-b-(DMAPMA) in $CDCl_3$.

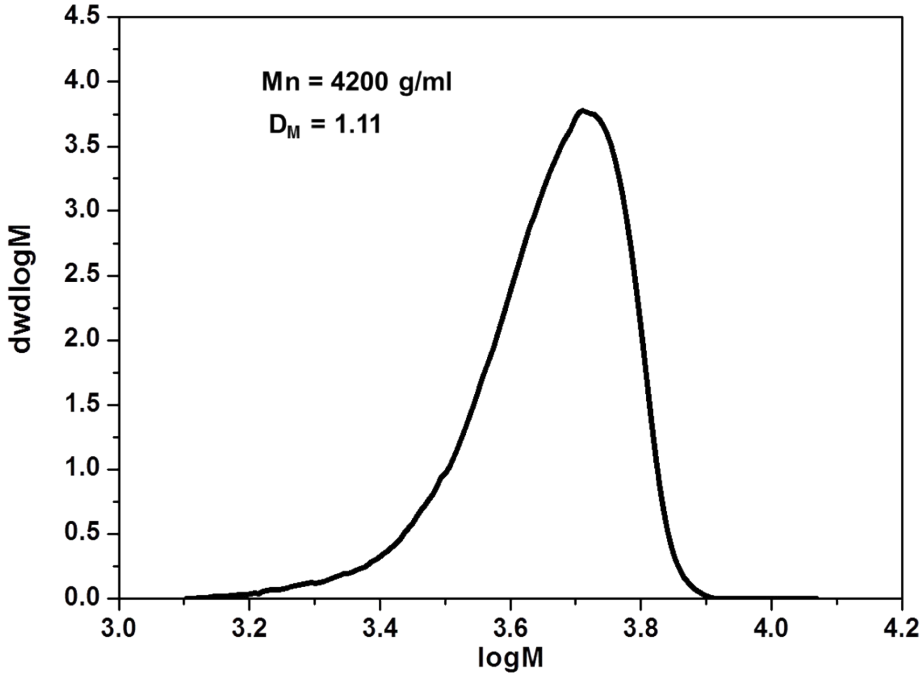

Figure S5. Aqueous SEC chromatogram showing molecular-weight distribution of P(DMAPMA).

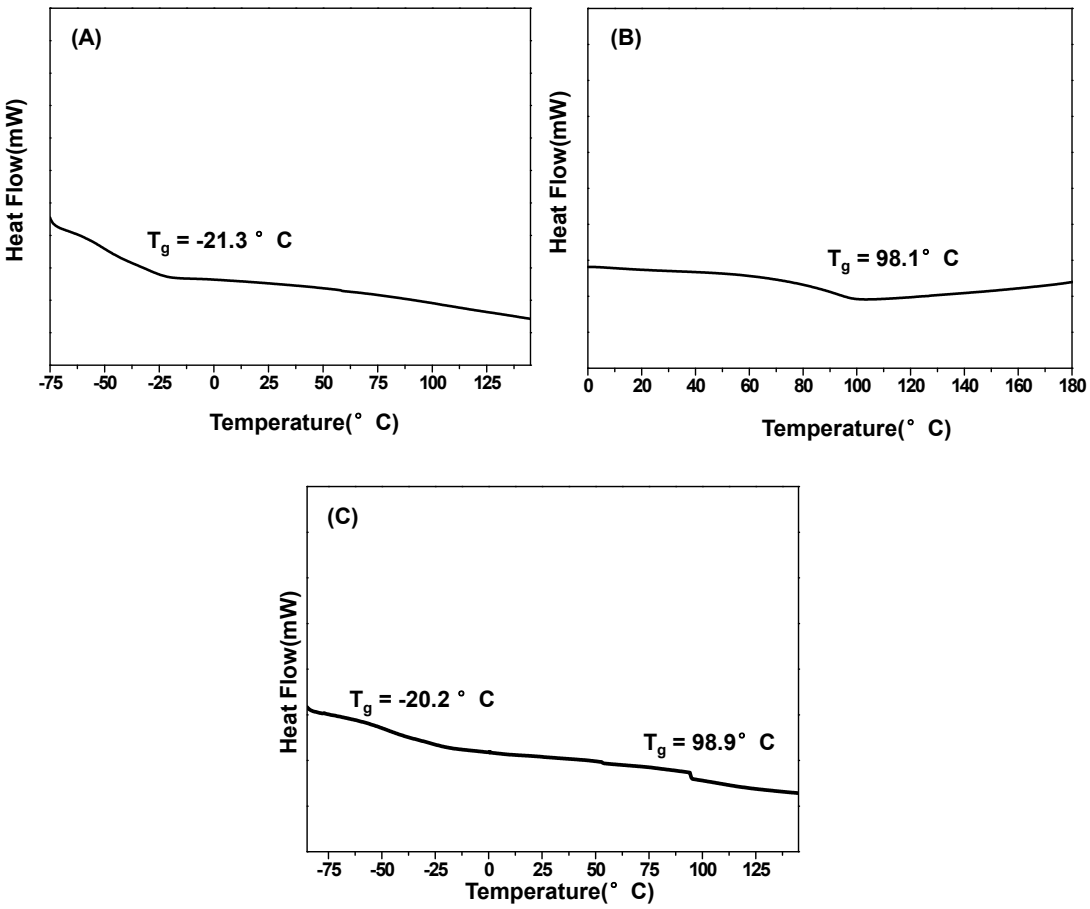

Figure S6. DSC traces for the STAT1 (A), P(DMAPMA) homopolymer (B) and BCP1 (C).

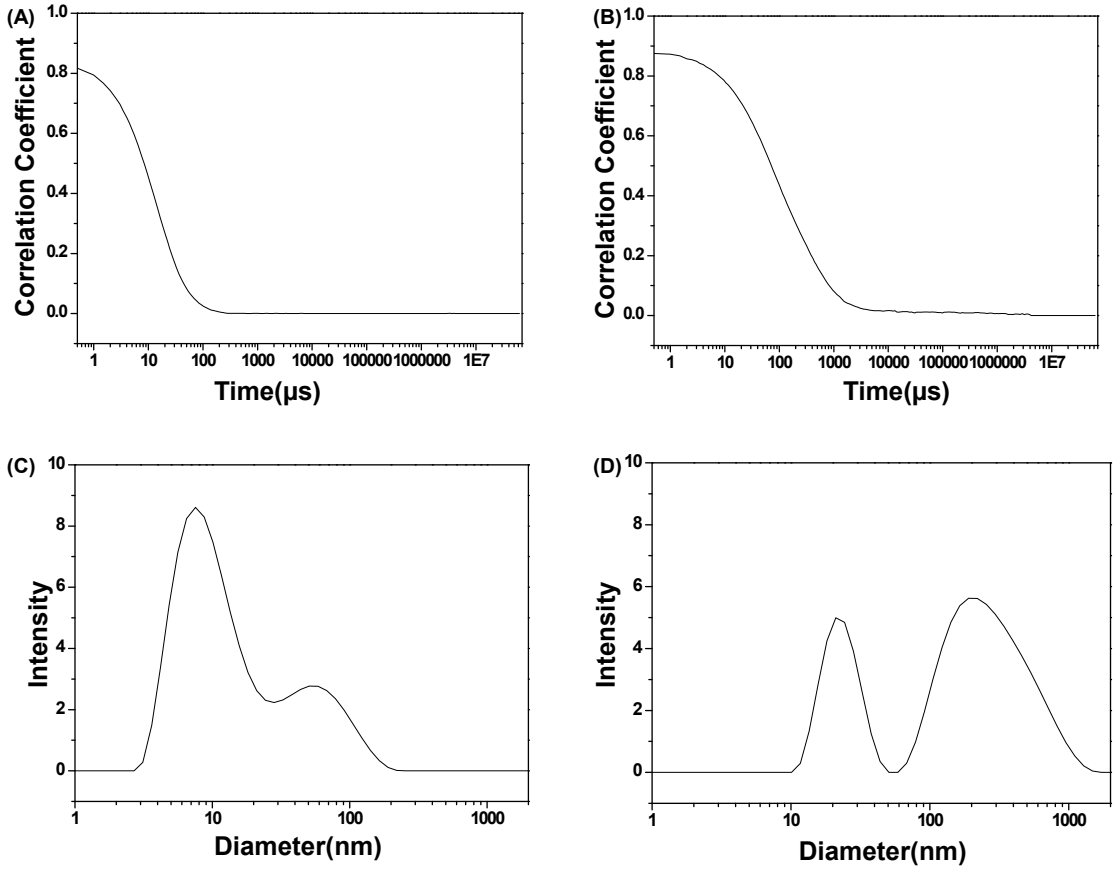

Figure S7. Autocorrelation function for STAT1(A) and BCP1(B) and intensity size distributions for STAT1 (C) and BCP1 (D) measured by DLS.

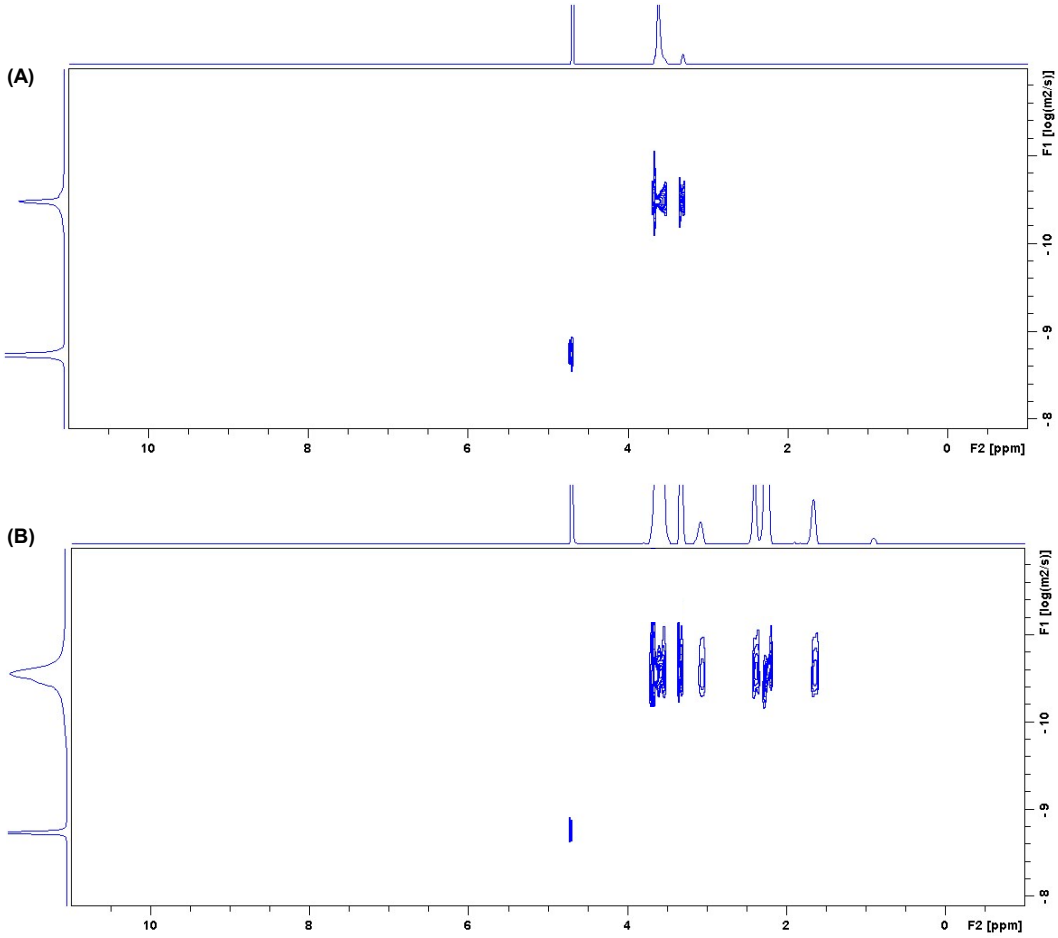

Figure S8. ^{1}H DOSY NMR spectra of STAT1(A) and (B) BCP1 in D_2O.

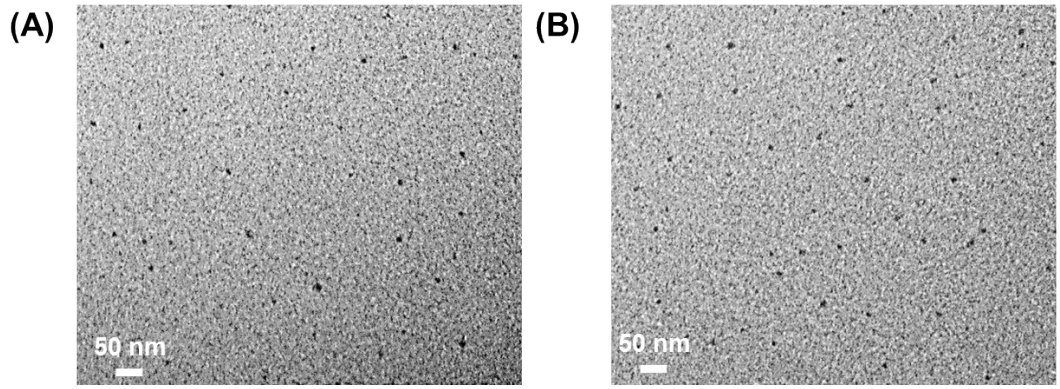

Figure S9. TEM images (0.1 mg/ml at 25 °C) of self-assembled aggregates of polymers for BCP2 (A), BCP3 (B).

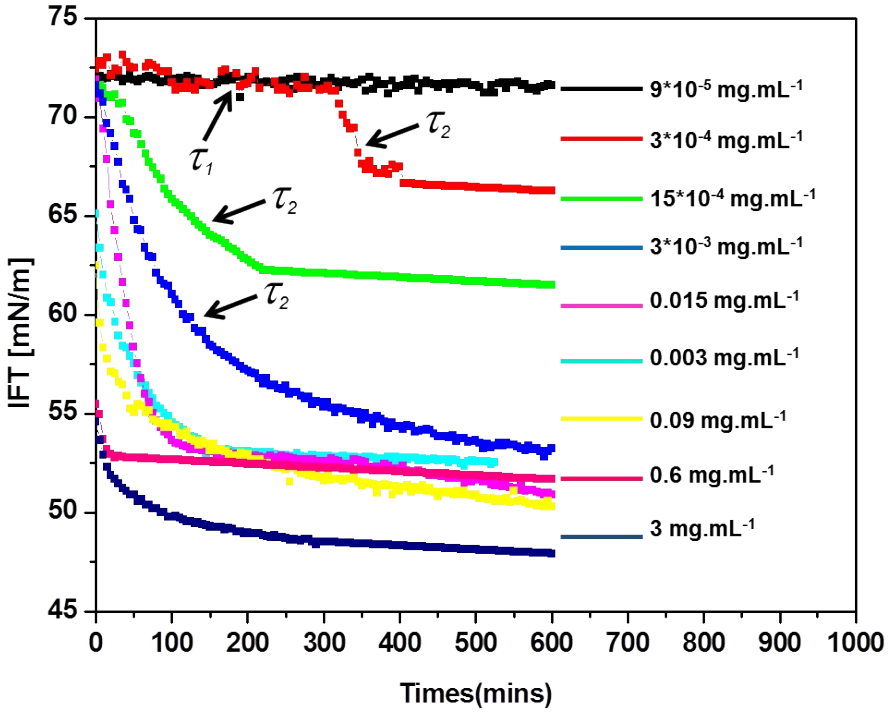

Figure S10. Dynamic surface tension of solutions of varying concentration in water of copolymer BCP1 as a function of time.