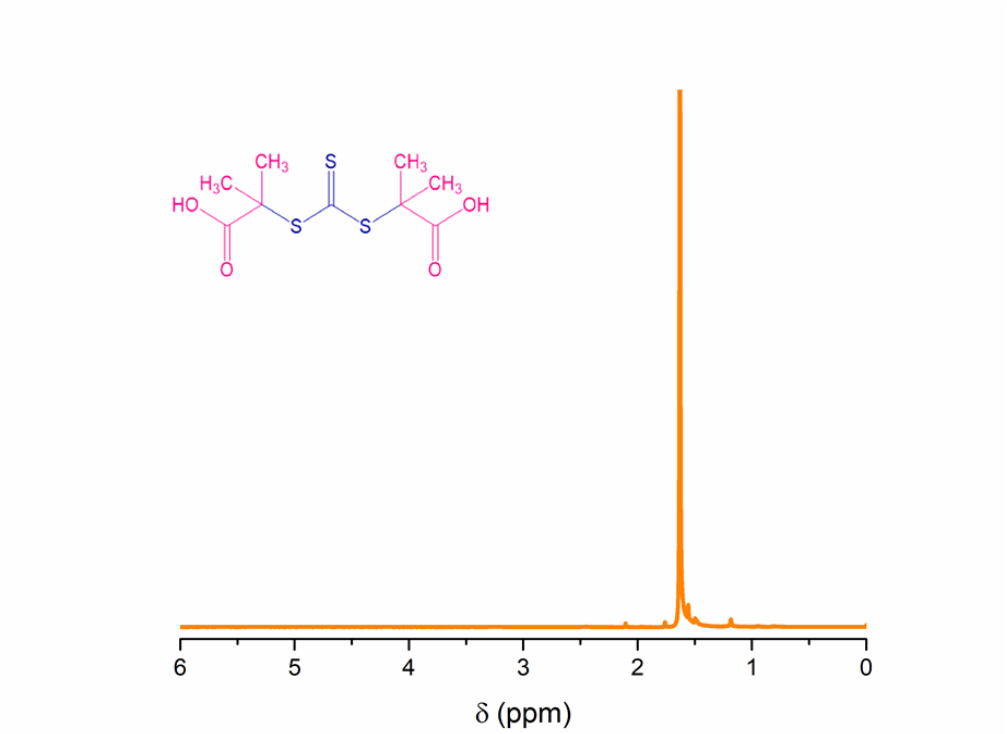

Figure S1. ^{1}H NMR spectrum of the symmetric transfer agent 2,2'-(thiocarbonylbis(sulfanediyl))bis(2-methylpropanoic acid).

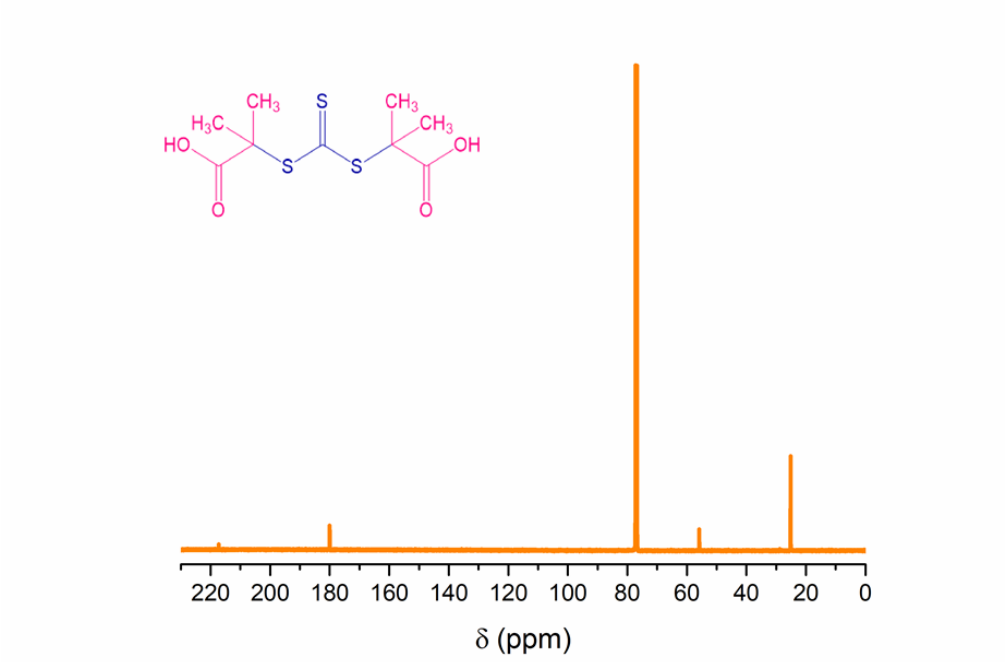

Figure S2. ^{13}C NMR spectrum of the symmetric transfer agent 2,2'-(thiocarbonylbis(sulfanediyl))bis(2-methylpropanoic acid).

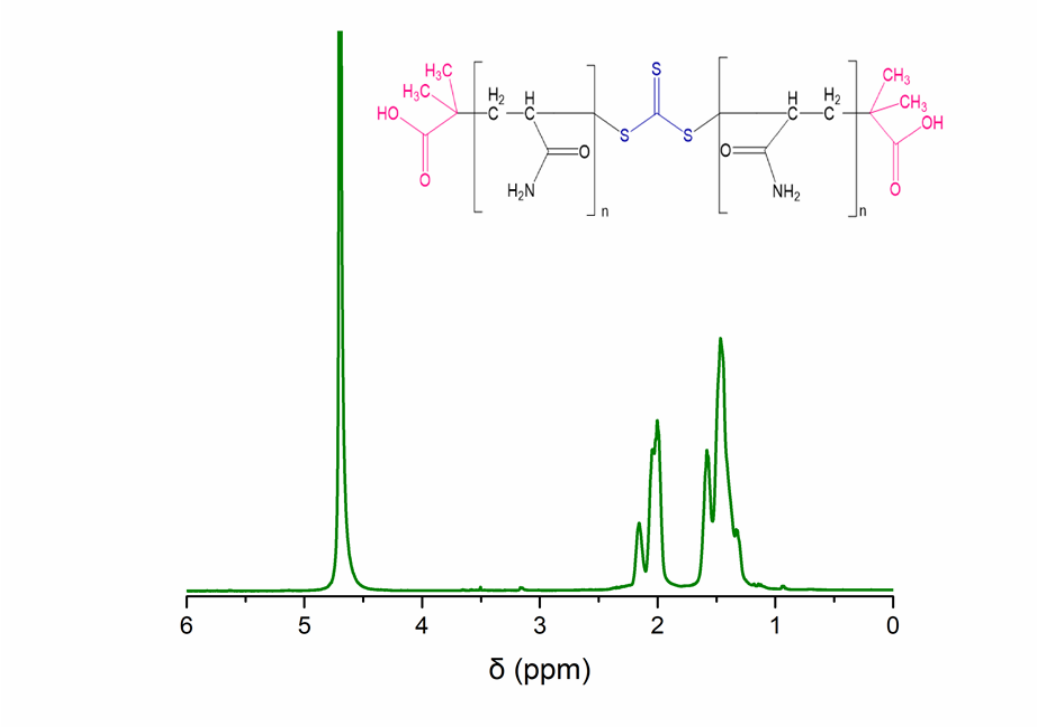

Figure S3. ^{1}H NMR spectrum of the polyacrylamide block (PAM).

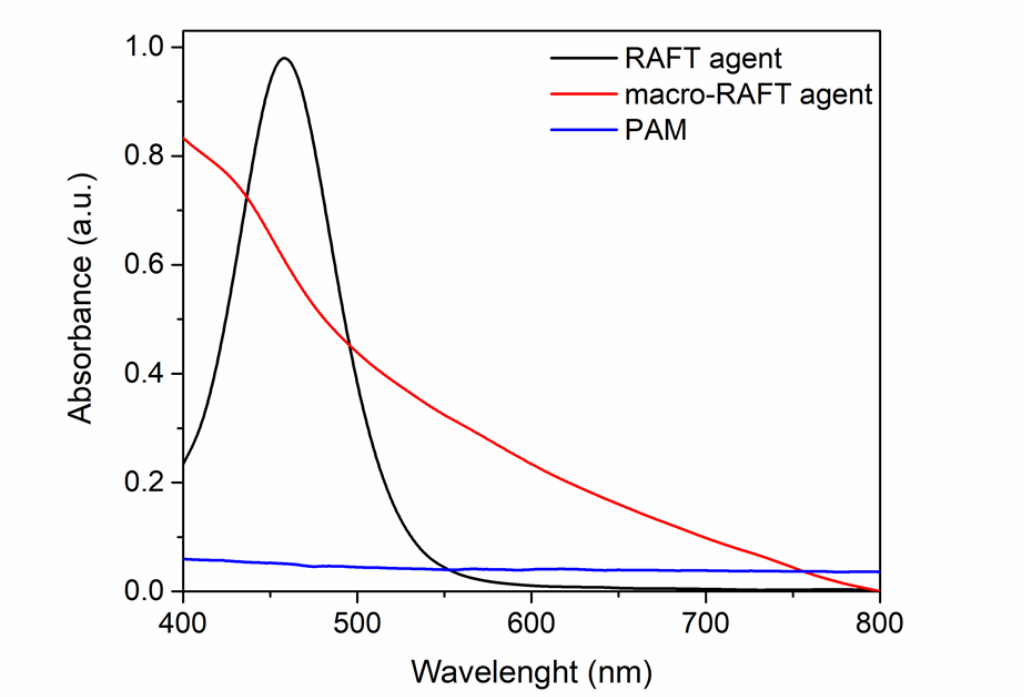

Figure S4. Comparison of UV-Vis spectra of symmetric transfer agent 2,2'-(thiocarbonylbis(sulfanediyl))bis(2-methylpropanoic acid), the macro-RAFT agent (the PAM block) and polyacrylamide (PAM) synthesized by inverse emulsion polymerization.

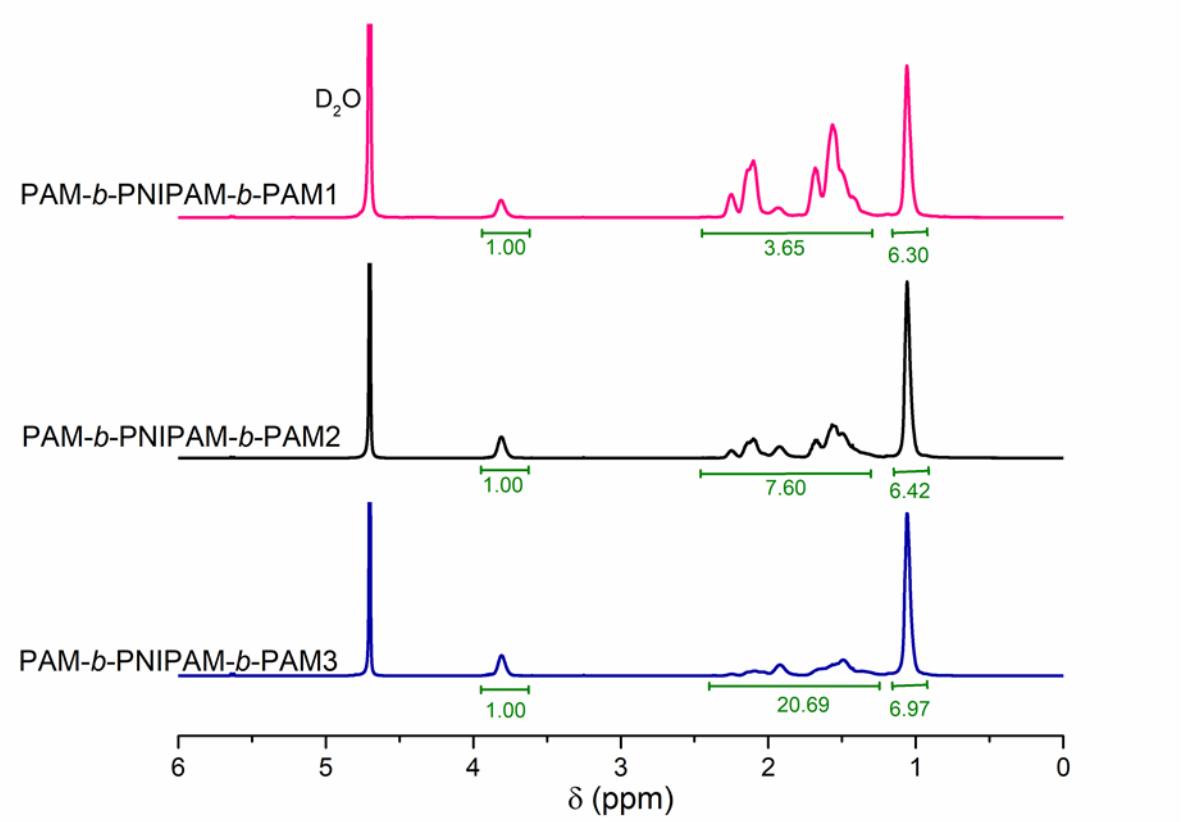

Figure S5.[1]H NMR spectrum, with the signal integration of PAM-*b*-PNIPAM-*b*-PAM1, PAM-*b*-PNIPAM-*b*-PAM2 and PAM-*b*-PNIPAM-*b*-PAM3.