Electronic Supplementary Material (ESI) for Nanoscale.

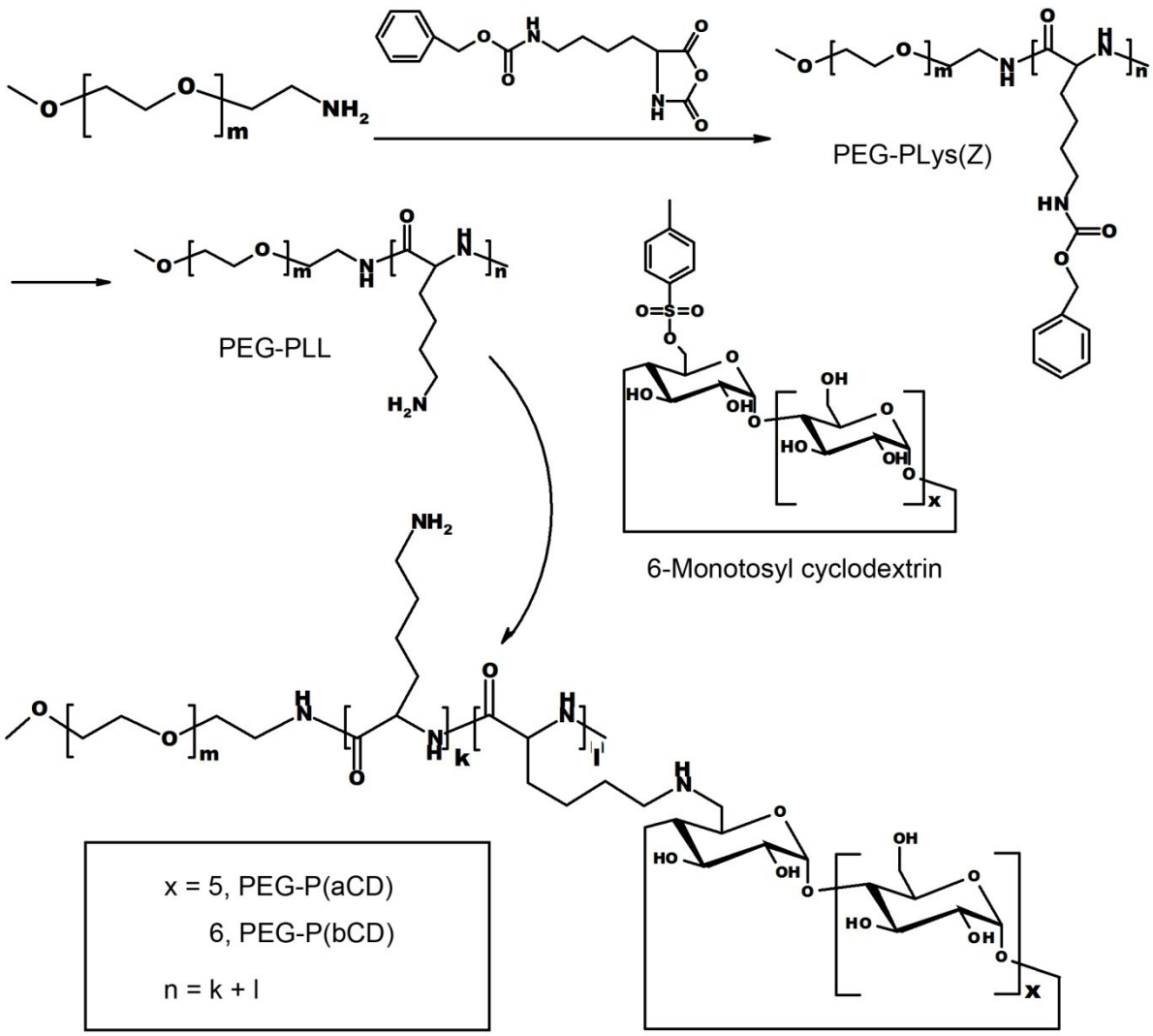

Figure S1. Schematic illustration of the synthesis of CD-containing hydrophilic diblock copolymers. PEG-P(aCD) and PEG-P(bCD) indicate copolymers containing α-CD and β-CD, respectively.

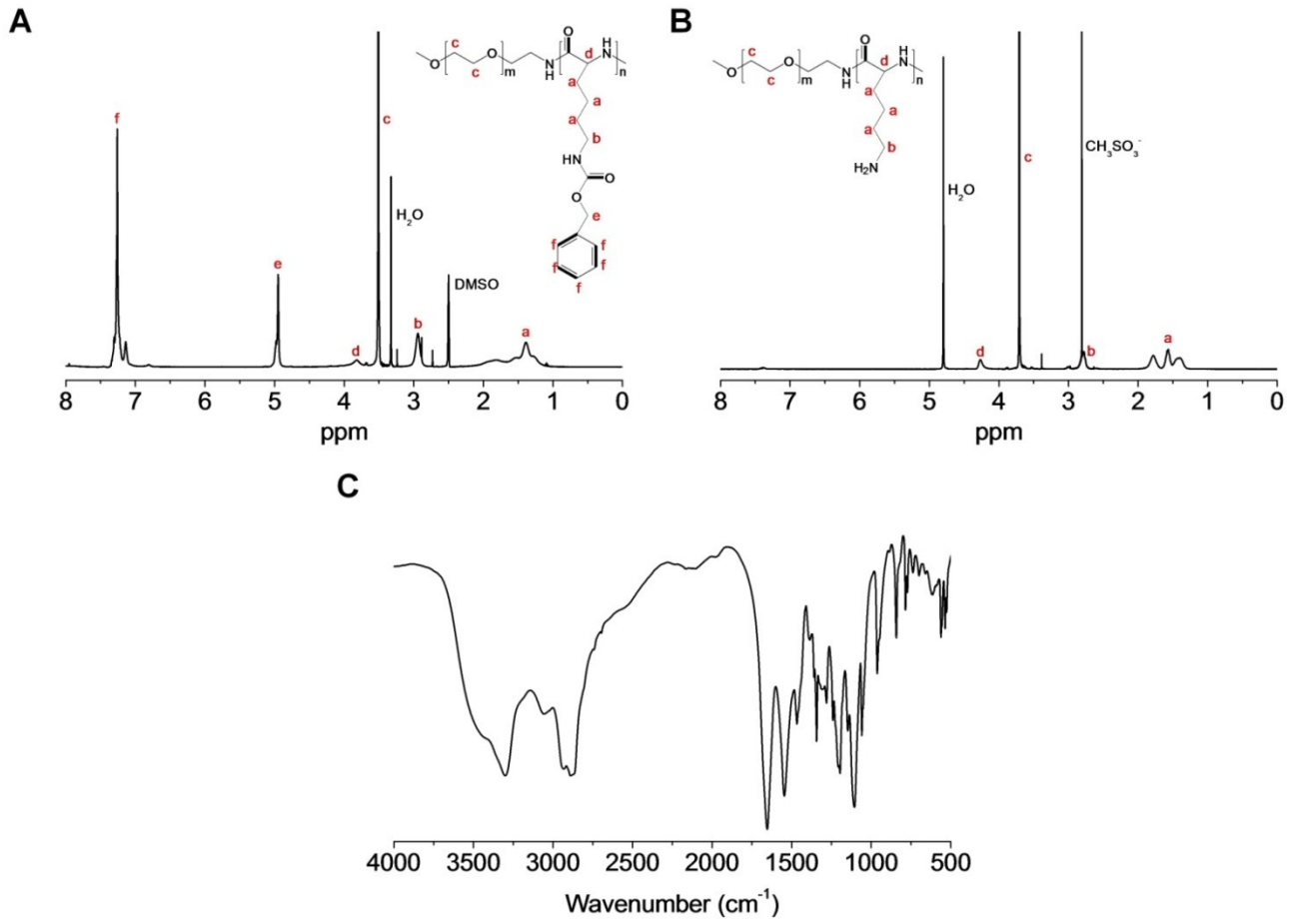

Figure S2. Characterization of synthesized PEG-PLL. (A-B) ^{1}H NMR spectra of PEG-PLys(Z) (A) and PEG-PLL (B). (C) The FT-IR spectrum of PEG-PLL.

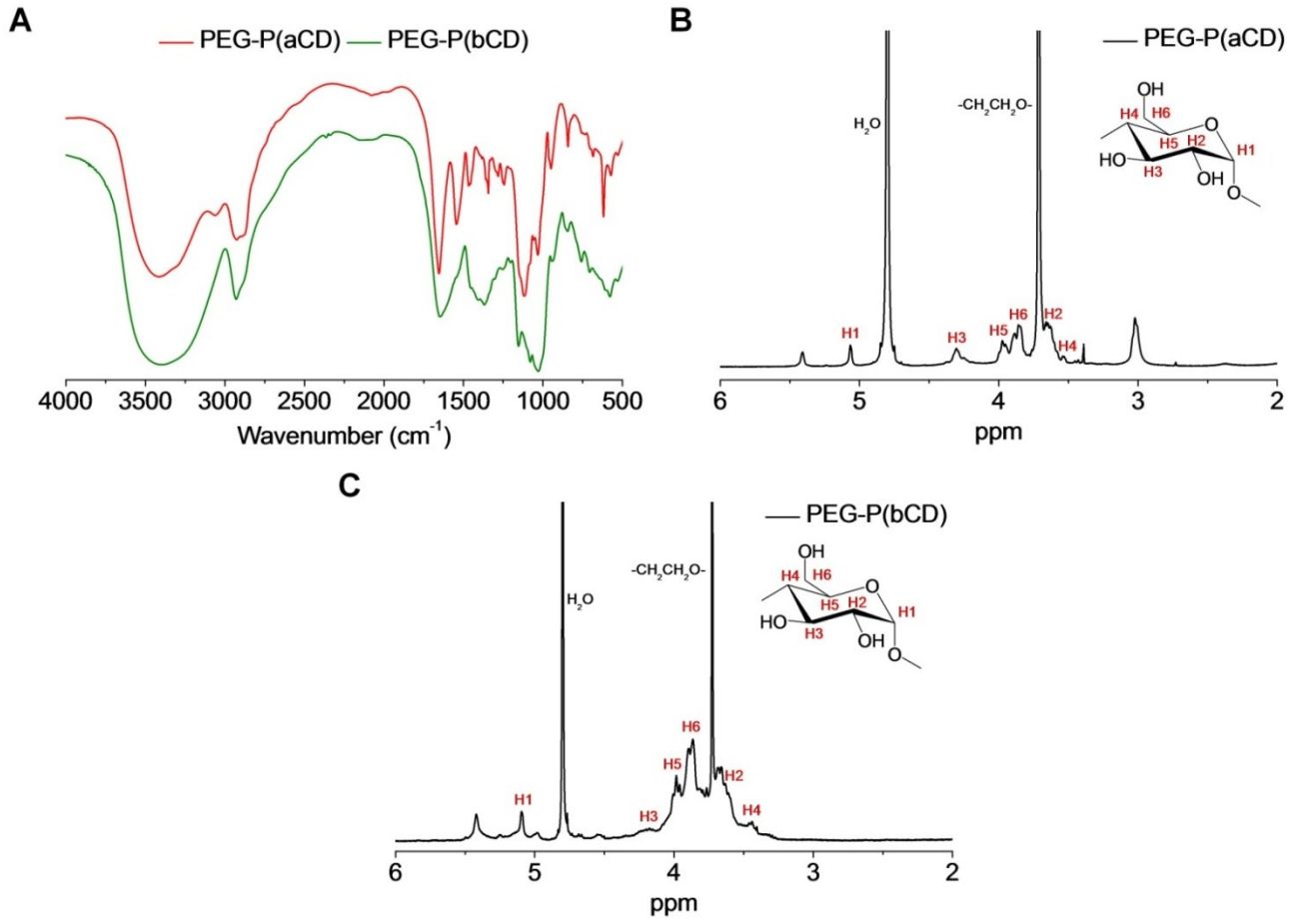

Figure S3. Characterization of synthesized CD-containing copolymers PEG-P(aCD) and PEG-P(bCD). (A) The FT-IR spectra of PEG-P(aCD) and PEG-P(bCD). (B-C) The ^{1}H NMR spectra of PEG-P(aCD) (B) and PEG-P(bCD) (C).

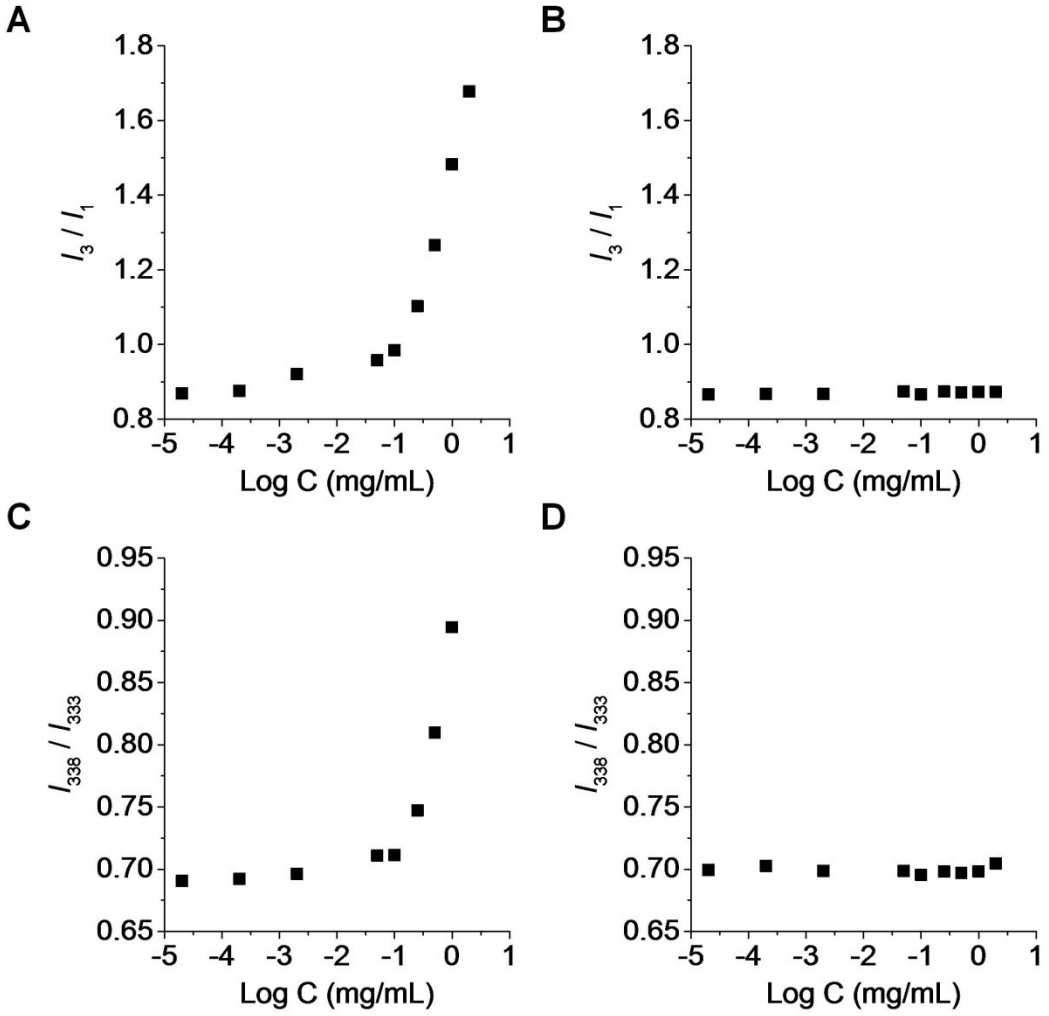

Figure S4. Fluorescence spectroscopy studies of self-assembly behaviors of PEG-P(aCD) in the presence of a fluorescent probe pyrene. (A-B) Plot of fluorescence intensity ratios of the third band (I_3, at 385 nm) to the first band (I_1, at 375 nm) in emission fluorescence spectra of pyrene in the presence of PEG-P(aCD) (A) or α-CD (B) at various concentrations. (C-D) The fluorescent intensity ratios (I_{338}/I_{333}) at 338 and 333 nm of excitation spectra of pyrene in aqueous solutions containing various concentrations of PEG-P(aCD) (C) or α-CD (D).