

Figure S1. FT-IR spectrum of HPMA, PEG acrylate and P(HPMA-MPEGA)

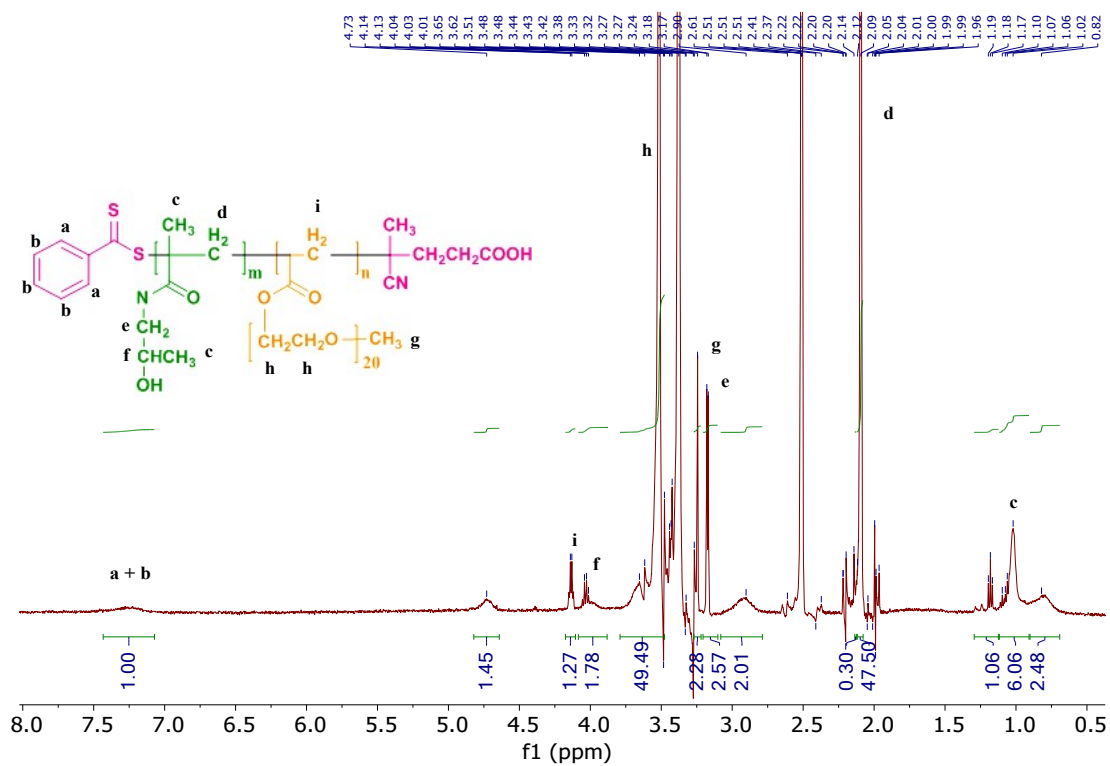


Figure S2.  $^1\text{H-NMR}$  spectrum of P(HPMA-MPEGA) in  $(d_6)\text{DMSO}$

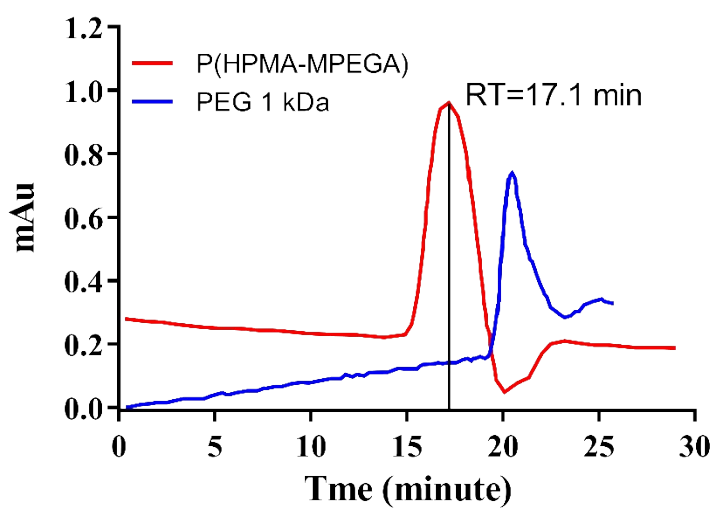


Figure S3. Size exclusion chromatography curve of P(HPMA-MPEGA) and PEG (1 kDa)

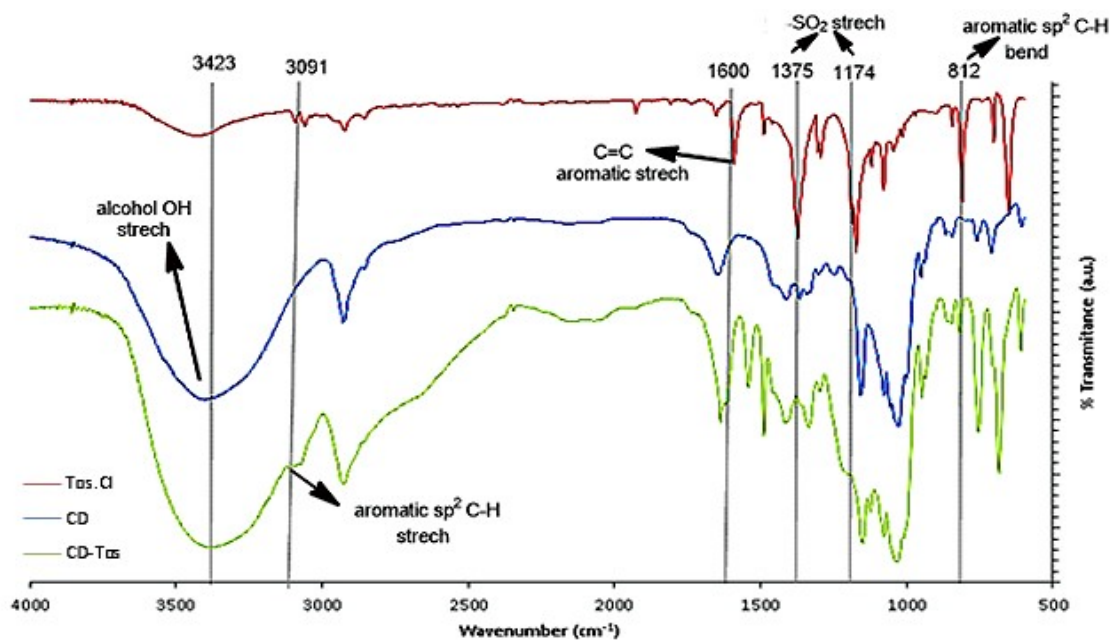


Figure S4. FT-IR spectra of Tos.Cl, CD and CD-Tos

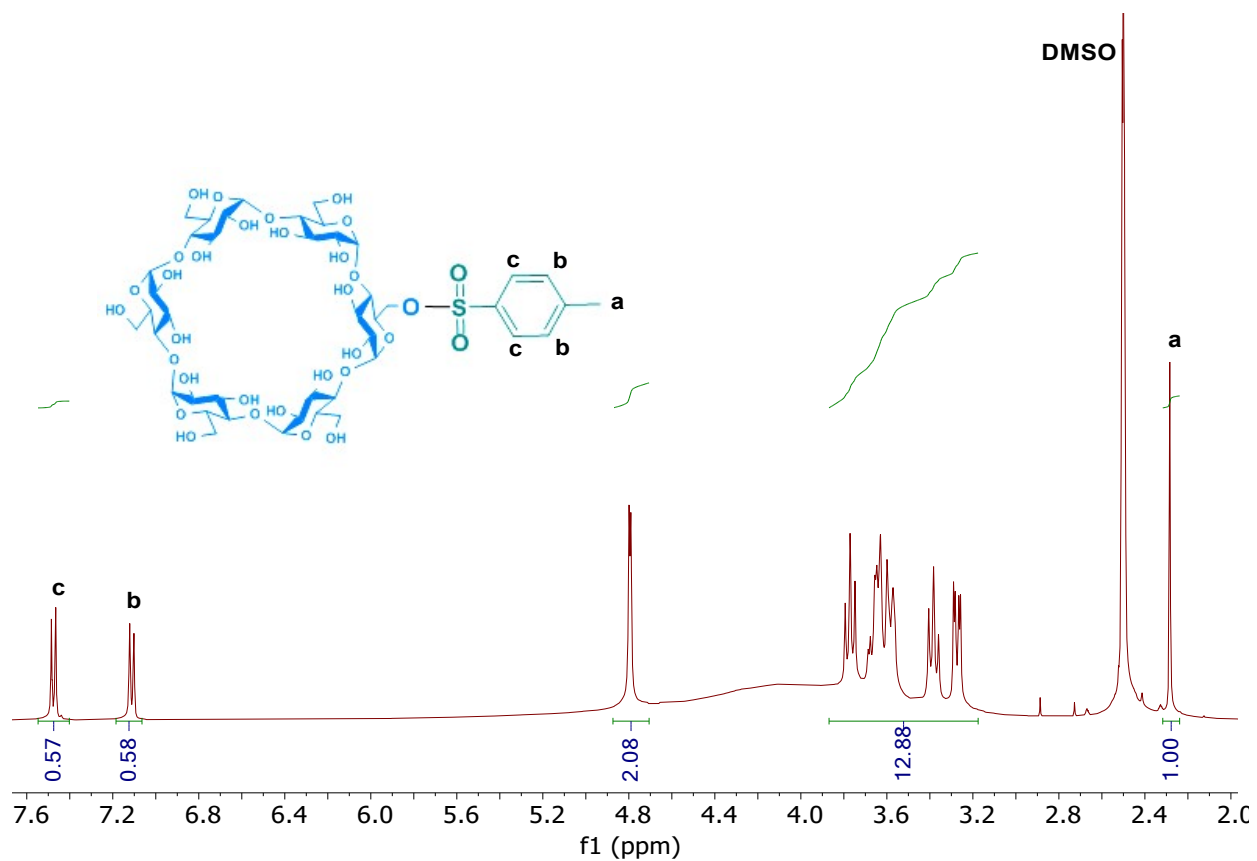


Figure S5.  $^1\text{H-NMR}$  spectrum of CD-Tos in  $(d_6)\text{DMSO}$

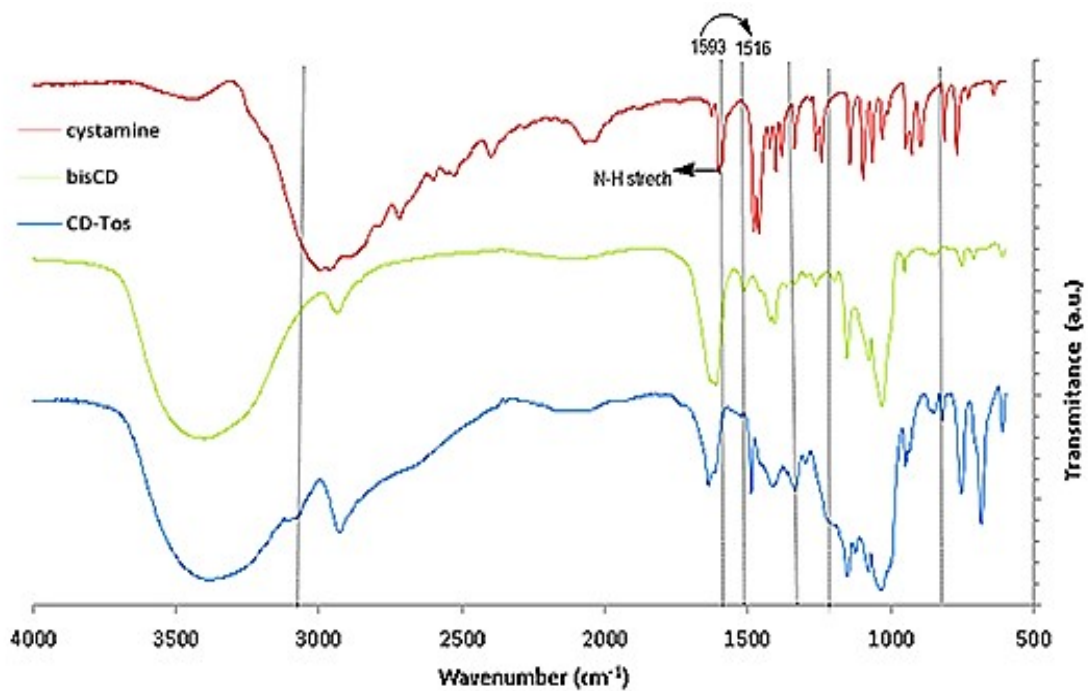


Figure S6. FT-IR spectra of cystamine, CD-Tos and bisCD

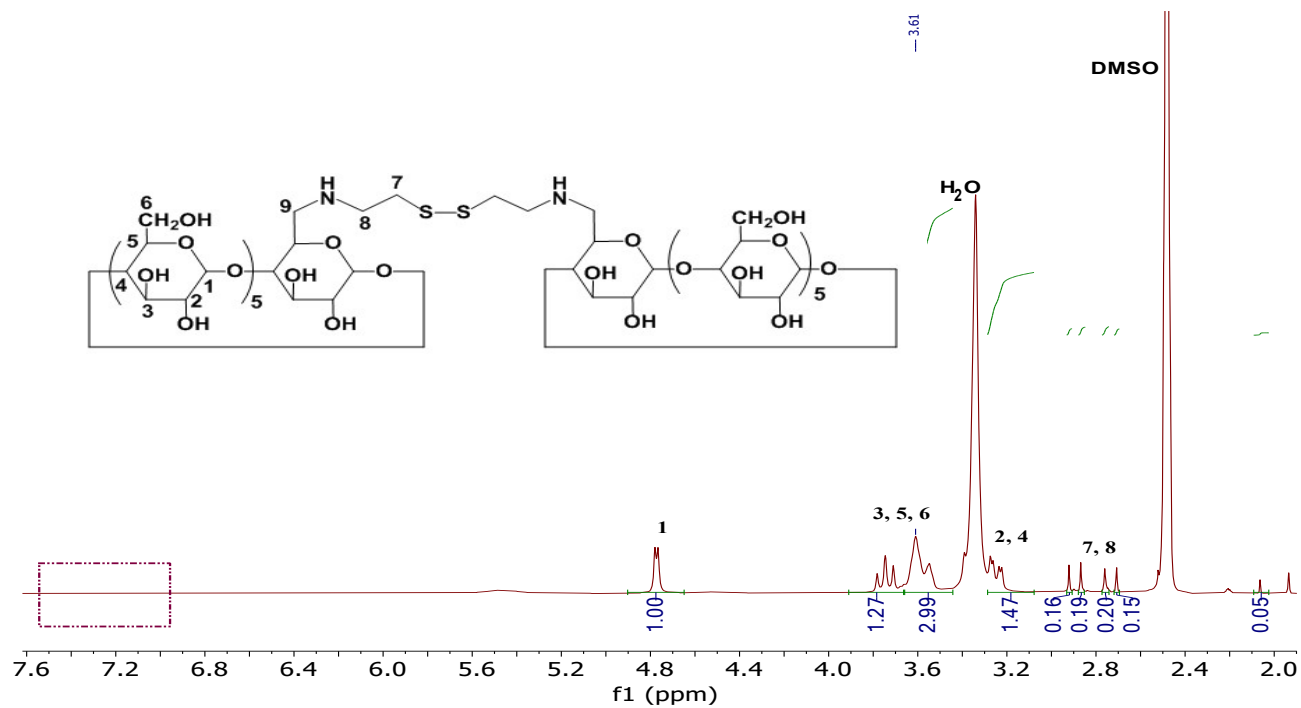


Figure S7.  $^1\text{H-NMR}$  spectrum of bisCD in  $(d_6)\text{DMSO}$

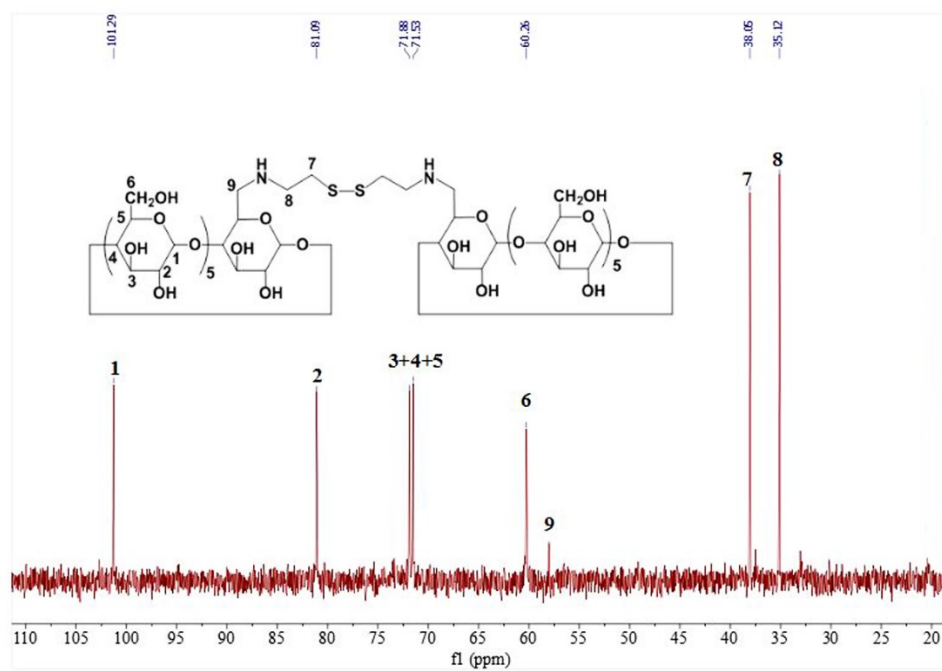


Figure S8.  $^{13}\text{C-NMR}$  spectrum of bisCD in  $\text{D}_2\text{O}$ .

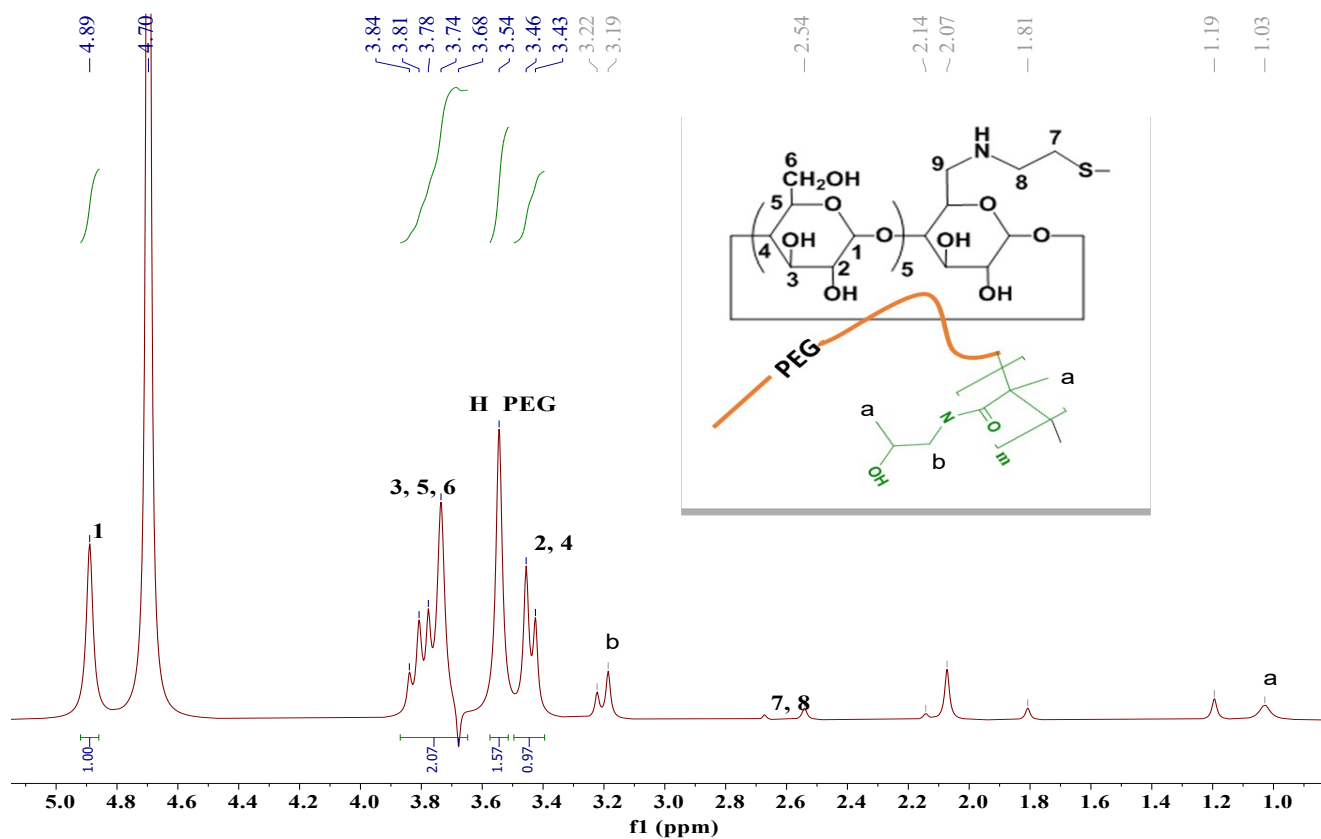


Figure S9.  $^1\text{H-NMR}$  spectrum of bisCD nanogel in  $\text{D}_2\text{O}$ .

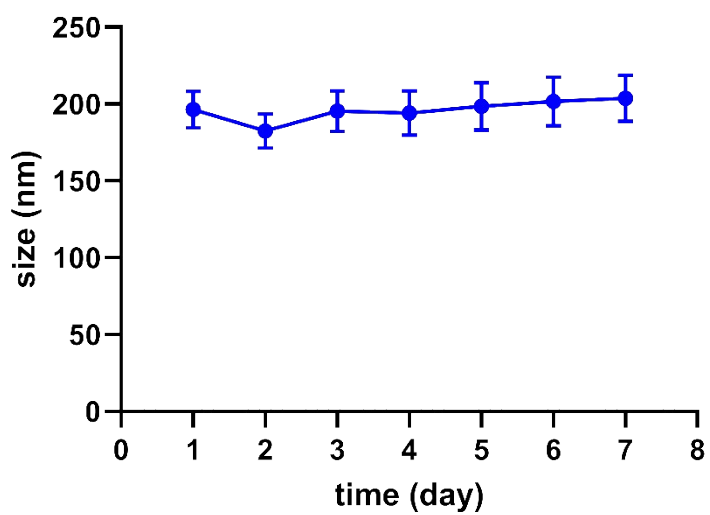


Figure S10. bisCD nanogel particle size stability over time