Supporting Information

Tough Polypseudorotaxane Supramolecular Hydrogel With

Dual-responsive Shape Memory Property

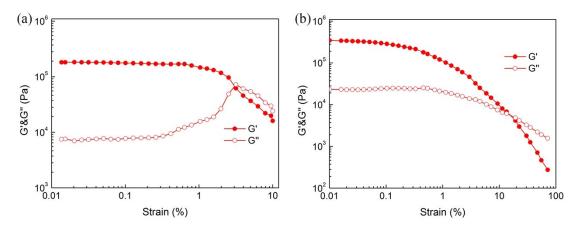


Fig. S1 Strain sweep of (a) as-prepared CD-PPR hydrogel, (b) Fe³⁺ cross-linked CD-PPR hydrogel

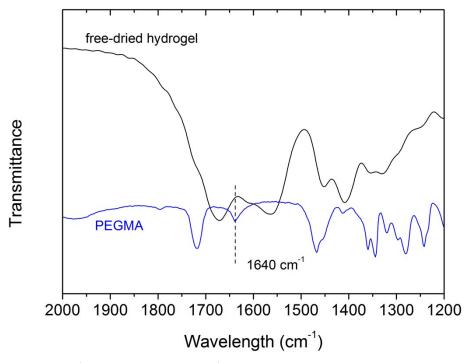


Fig. S2 FTIR spectra of PEGMA monomer and freeze-dried hydrogel sample. The absence of peak at 1640 cm⁻¹ after copolymerization demonstrates successful copolymerization of PEGMA.

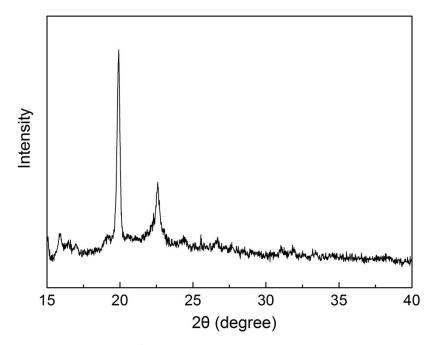


Fig. S3 XRD pattern of α -CD/PEGMA inclusion precipitate in Fig. 2b. The peak at 2θ =19.8° indicates the existence of channel-structured α -CD/PEG inclusions.