Supporting Information

Facile Synthesis of Reductively Degradable Biopolymers Using Cystamine Diisocyanate as a Novel Coupling Agent

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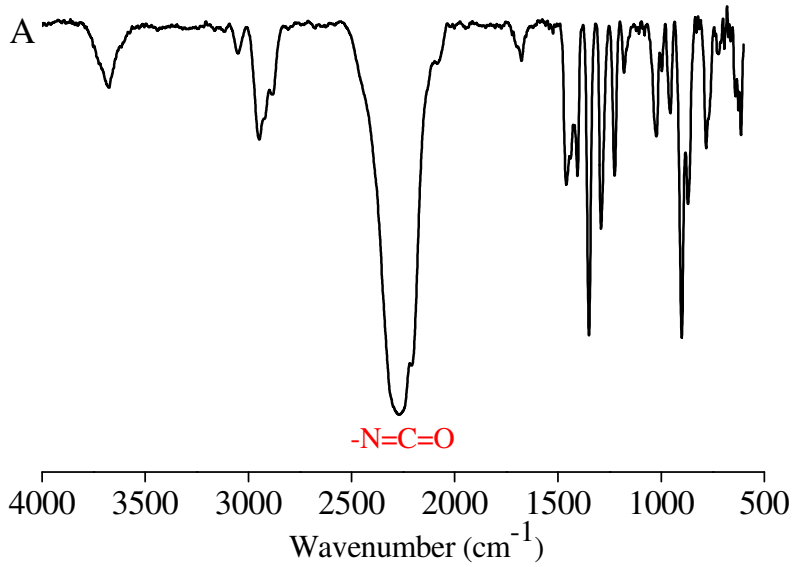
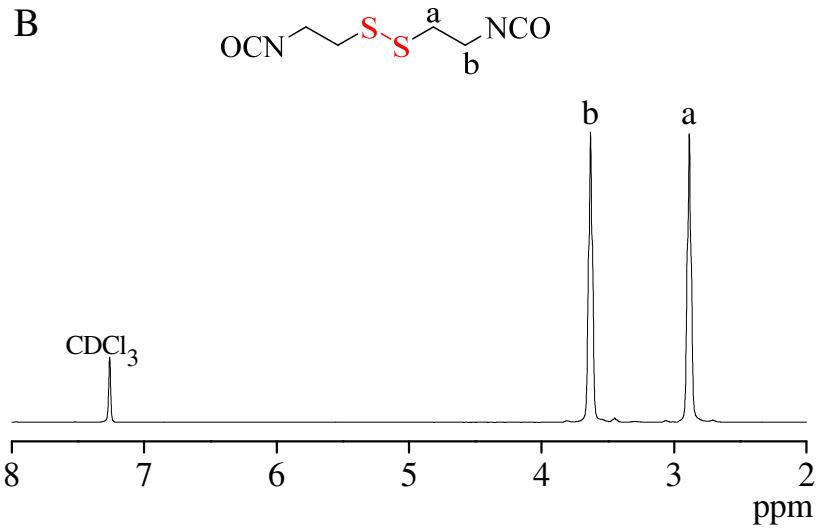

A
-N=C=O
4000
3500
3000
2500
2000
1500
1000
500
Wavenumber (cm-1)


B
OCN
S
S
a
b
NCO
b
a
CDCl3
8
7
6
5
4
3
2
ppm

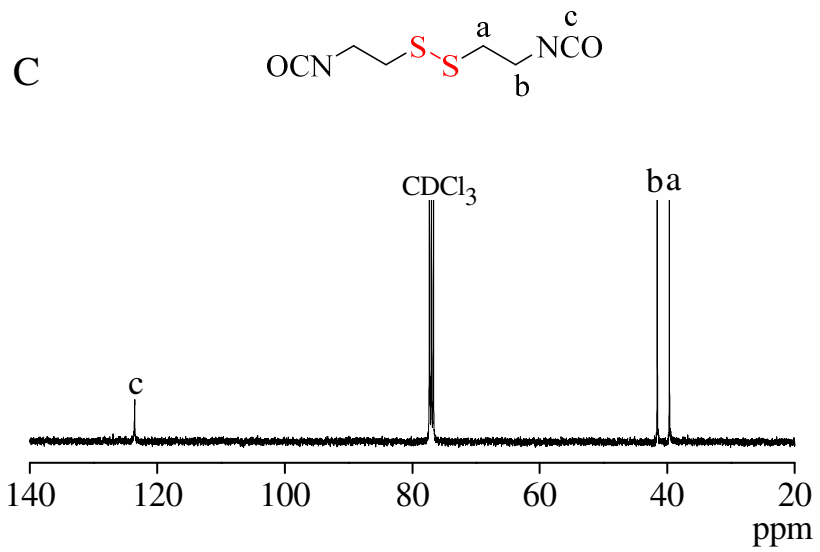


Figure S1. FT-IR (A), ^{1}H NMR (400 MHz, $CDCl_3$) (B), and ^{13}C NMR (150 MHz, $CDCl_3$) spectra (C) of CDI.

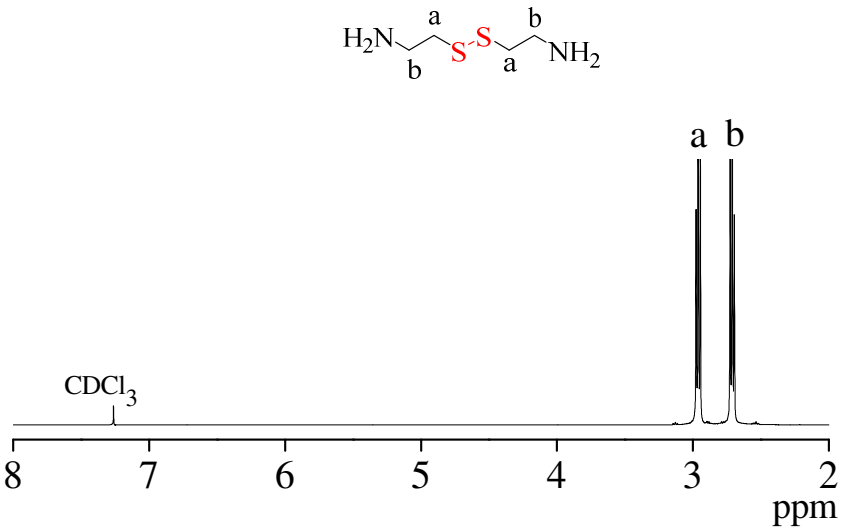


Figure S2. ^{1}H NMR spectrum (400MHz, $CDCl_3$) of CDH.

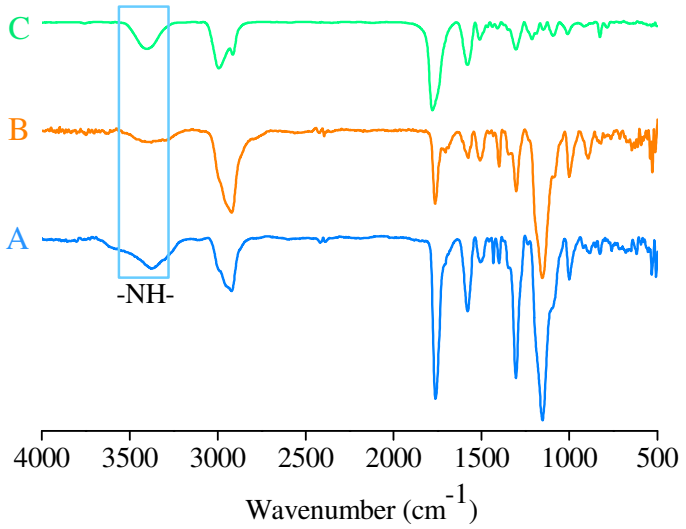
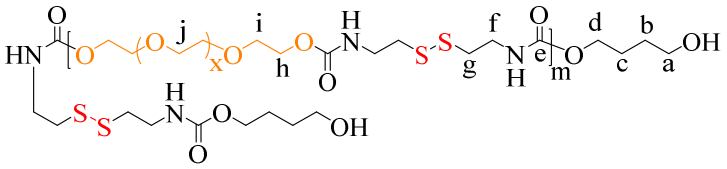


Figure S3. FT-IR spectra of $SSPEG_{1.5k}$ (A), $SSPEG_{0.4k}$ (B) and $SSPCL_{0.53k}$ (C).



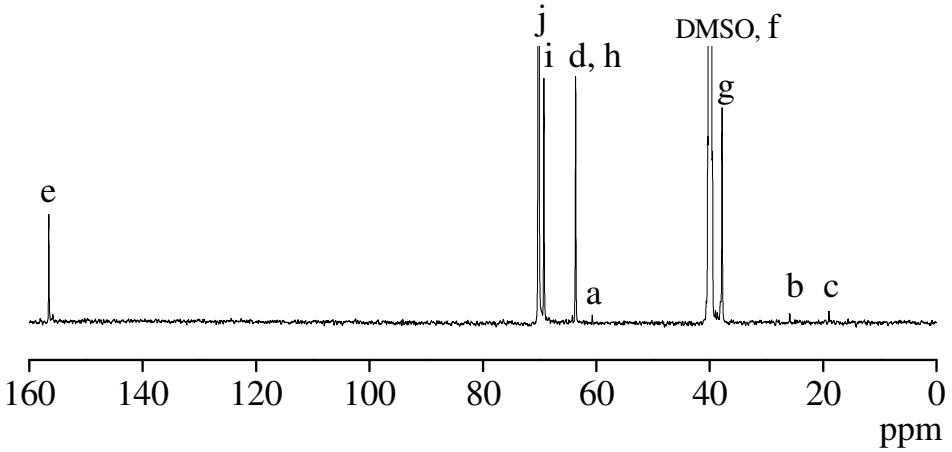


Figure S4. ^{13}C NMR spectrum (150 MHz, DMSO-d_6) of SSPEG (Table 1, Entry 4).

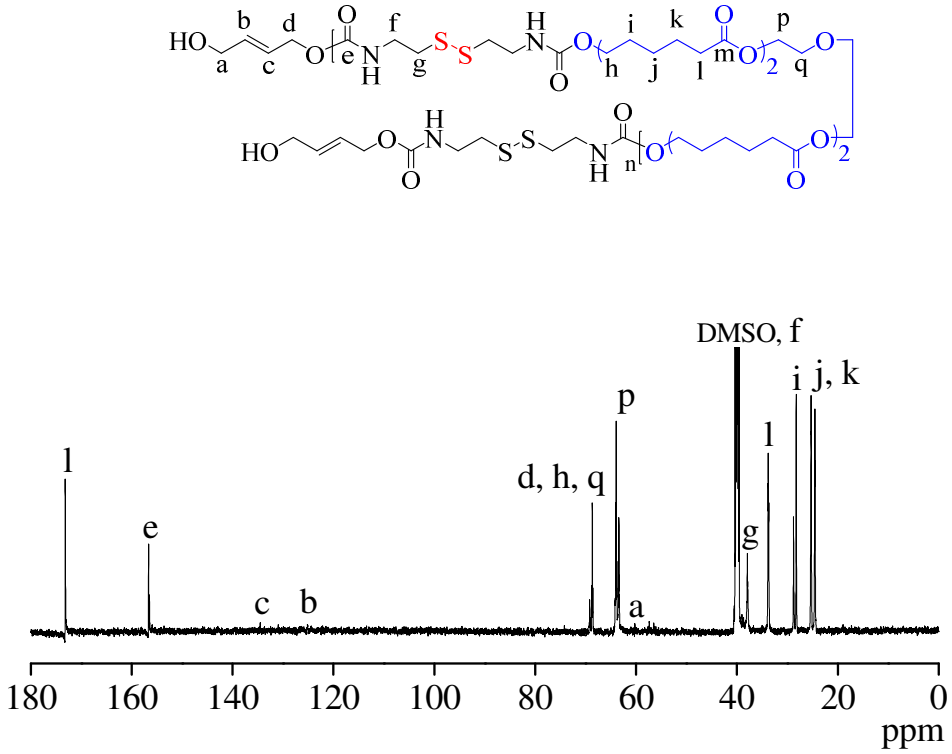


Figure S5. ^{13}C NMR spectrum (150 MHz, DMSO-d_6) of SSPCL (Table 2, Entry 1).

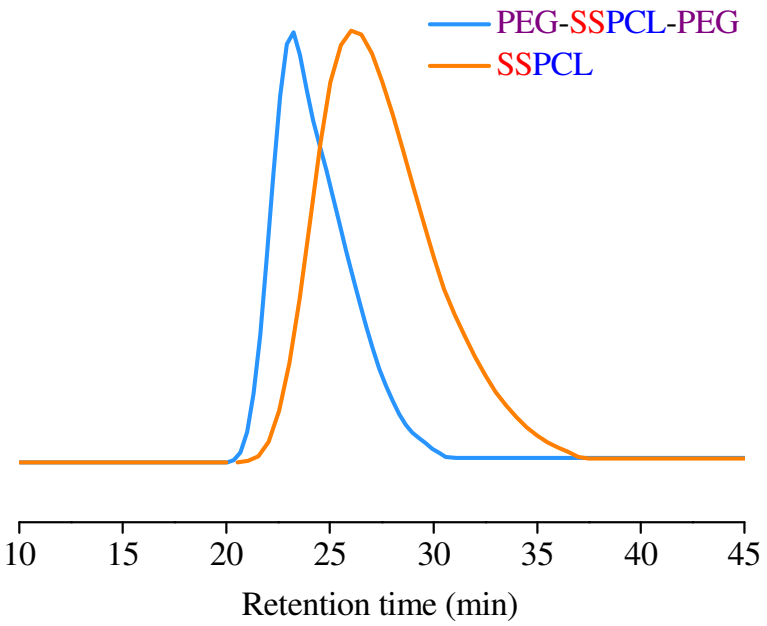


Figure S6. GPC chromatograms of SSPCL (Table 2, Entry 1) and PEG-SSPCL-PEG triblock copolymer.

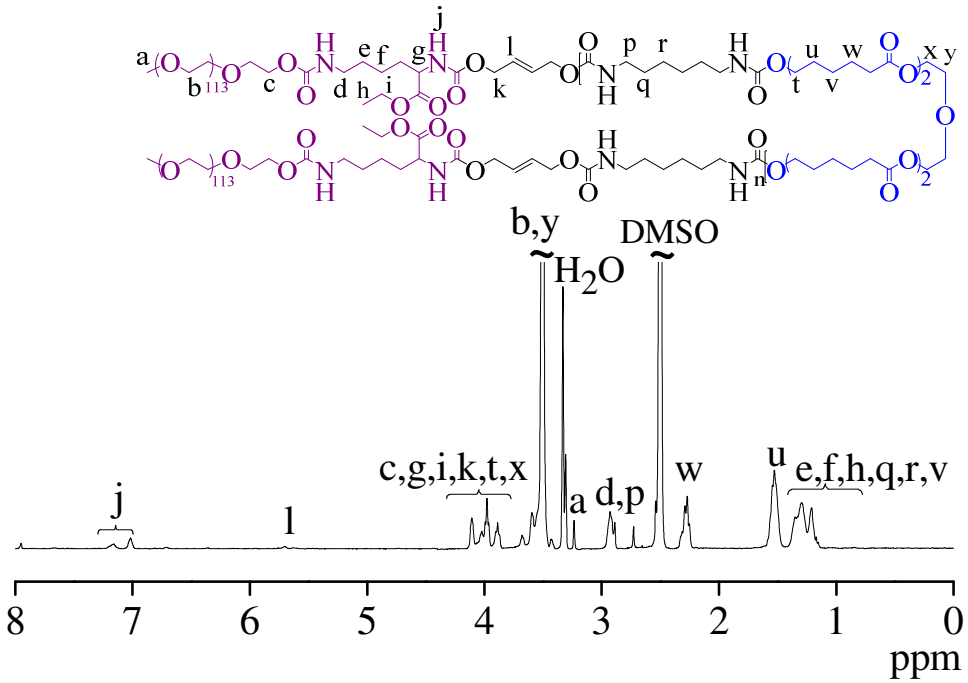


Figure S7. ^{1}H NMR spectrum (400MHz, DMSO-d_6) of PEG-PCL(HDI)-PEG.

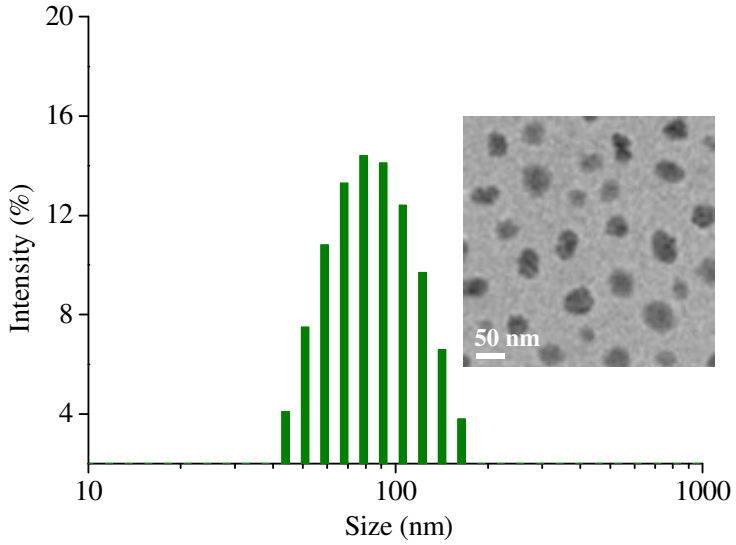


Figure S8. Size distribution of PEG-PCL(HDI)-PEG micelles determined by DLS and TEM.