

Supporting Information

A novel amphiphilic copolymer poly (ethylene oxide-*co*-allyl glycidyl ether)-*graft*-poly (ϵ -caprolactone): Synthesis, self-assembly, and protein encapsulation behavior

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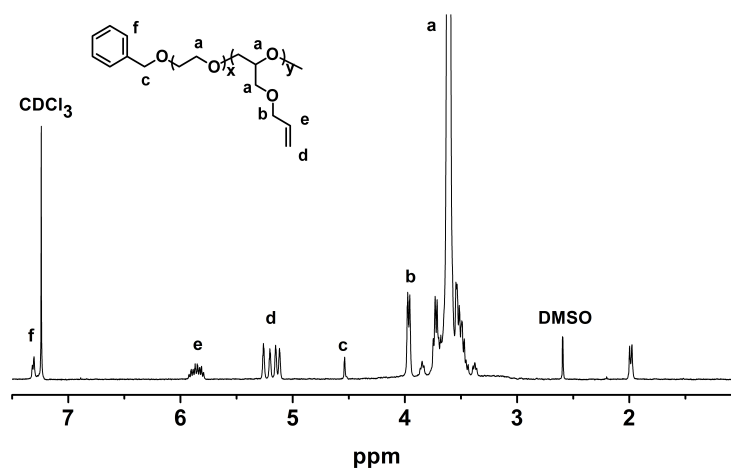


Fig. S1 ¹H NMR spectrum (300 MHz, CDCl₃) of PEAG_{6K}

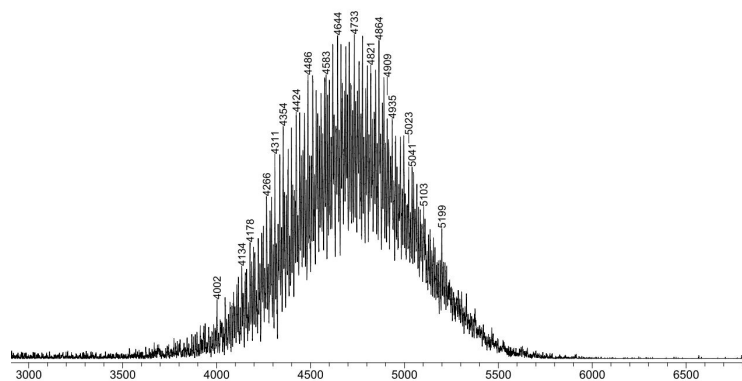


Fig. S2 MALDI-TOF mass spectrum of PEAG_{6K}

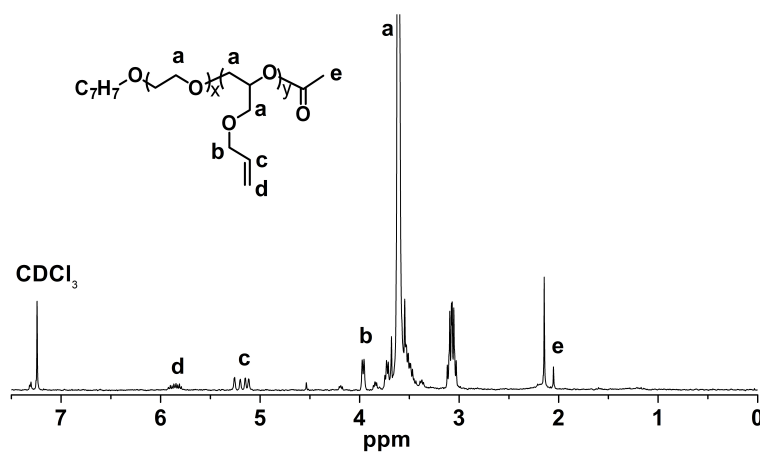


Fig. S3 ¹H NMR spectrum (300 MHz, CDCl₃) of PEAG_{6K}-Ac

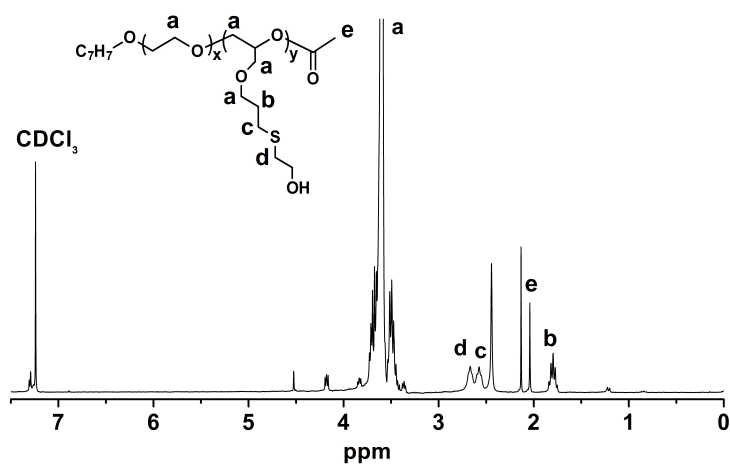


Fig. S4 ¹H NMR spectrum (300 MHz, CDCl₃) of PEAG_{6K}-OH

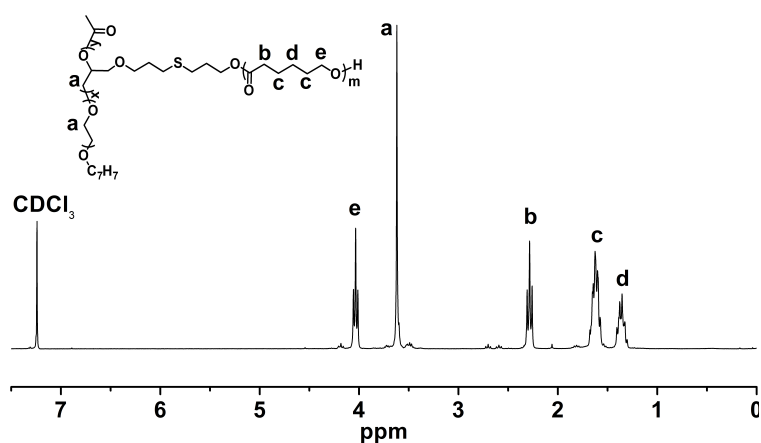


Fig. S5 ¹H NMR spectrum (300 MHz, CDCl₃) of PEAG_{6K}-g-PCL **1b**

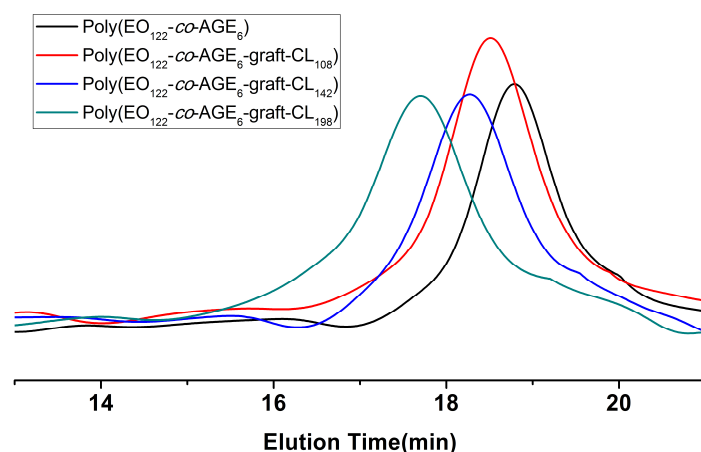


Fig. S6 GPC curves of PEAG_{6K} and PEAG_{6K}-g-PCL **1a**, **1b**, **1c**

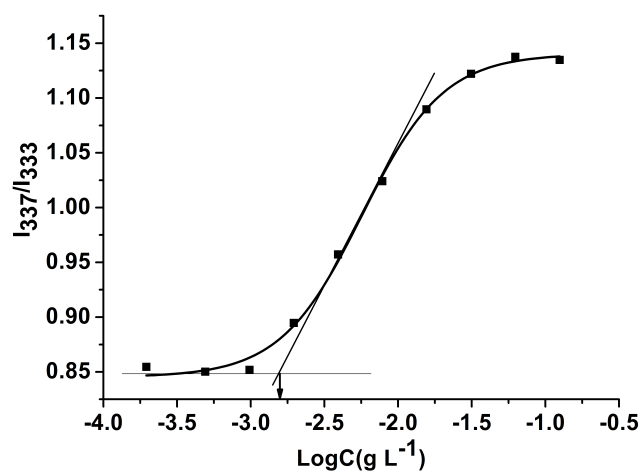


Fig.S7 Plot of I_{337}/I_{333} vs. $\log C$ of PEAG-g-PCL in deionized water

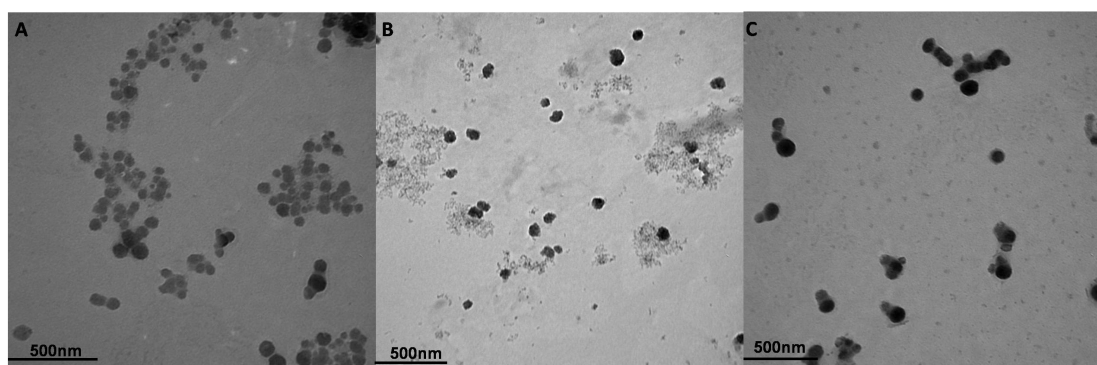


Fig. S8 TEM images of self-assembled polymer **1a**, $f_{PCL}=67\%$ (A), polymer **1b**, $f_{PCL}=73\%$ (B), polymer **1c**, $f_{PCL}=79\%$ (C)

Table S1 Characteristic absorption peak of encapsulated Hb in different gas-binding states

State	wavelength of the maximum absorption peak (nm)		
COHb	569	540	419
oxyHb	577	541	415
deoxyHb	555		430