Electronic supplementary information (ESI)

A cyclodextrin-core star copolymer with Y-shaped ABC miktoarms and its unimolecular micelles

Yan Wang,[ab] Yuyang Liu,*[ab] Jianghu Liang[ab] and Minhao Zou[ab]

[a] Key Laboratory of Macromolecular Science and Technology of Shaanxi Province, Department of Applied Chemistry, Northwestern Polytechnical University, Xi'an 710072, P.R. China

[b] The Key Laboratory of Space Applied Physics and Chemistry, Ministry of Education, school of science, Northwestern Polytechnical University, Xi'an 710072, P.R. China.

*E-mail: liu_yyang1120@nwpu.edu.cn

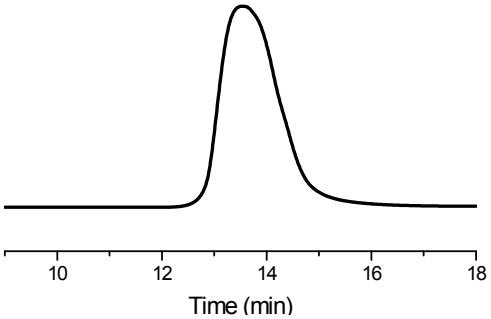

Fig. S1 DRI signal of SEC/MALLS chromatograms of *CD*-star-PEMA-Cl.

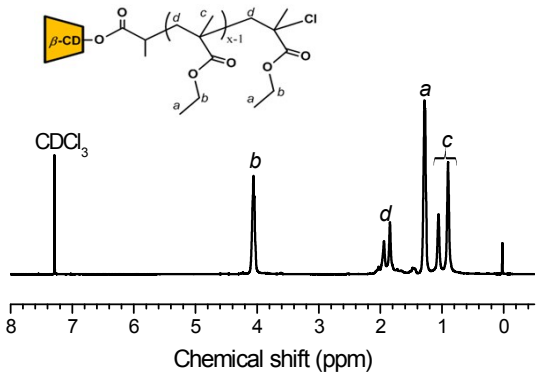

Fig. S2 ^{1}H-NMR spectrum of *CD*-star-PEMA-Cl in $CDCl_3$ (400 MHz).

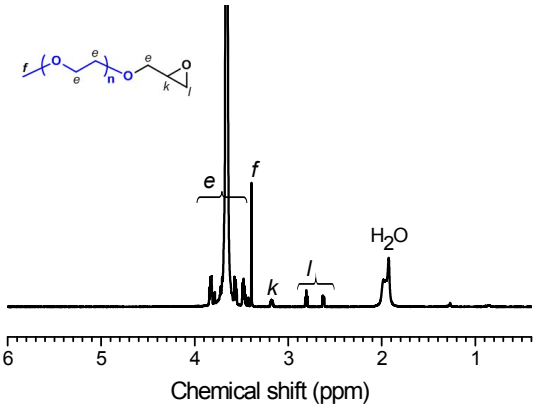

Fig. S3 ^{1}H-NMR spectrum of mPEG-epoxide in $CDCl_3$ (400 MHz).

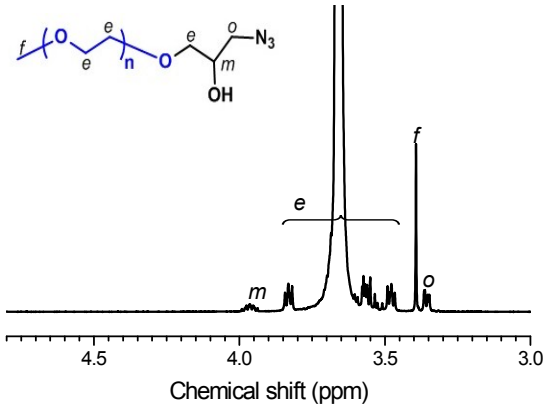

Fig. S4 ^{1}H-NMR spectrum of mPEG(-OH)-N_3 in $CDCl_3$ (400 MHz).

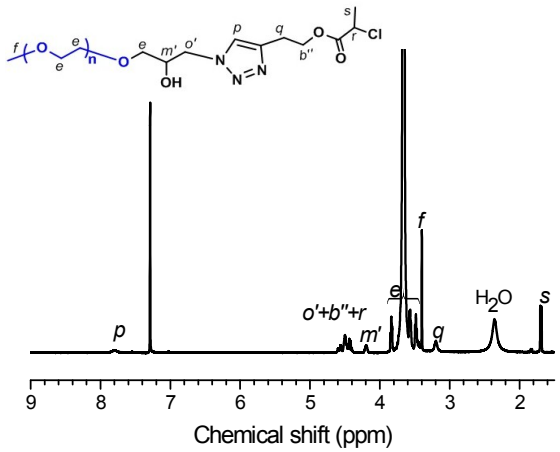

Fig. S5 ^{1}H-NMR spectrum of mPEG(-OH)-Cl in $CDCl_3$ (400 MHz).

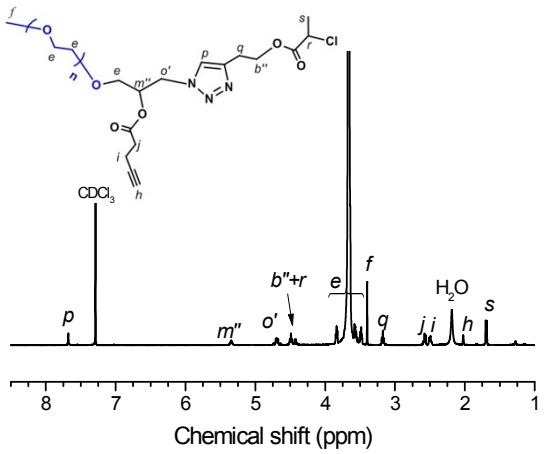

Fig. S6 ^{1}H-NMR spectrum of mPEG(-alkynyl)-Cl in $CDCl_3$ (400 MHz).

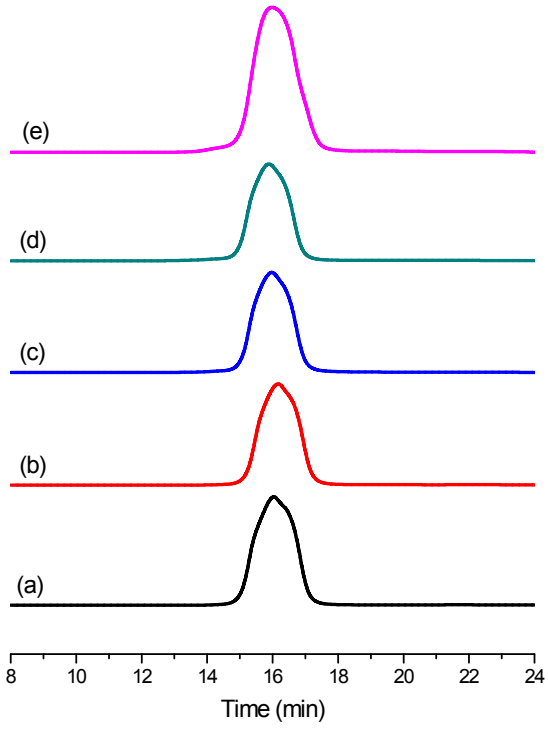

Fig. S7 DRI signals of SEC/MALLS chromatograms for (a) mPEG, (b) mPEG-epoxide, (c) mPEG(-OH)-N_3, (d) mPEG(-OH)-Cl and (e) mPEG(-alkynyl)-Cl.

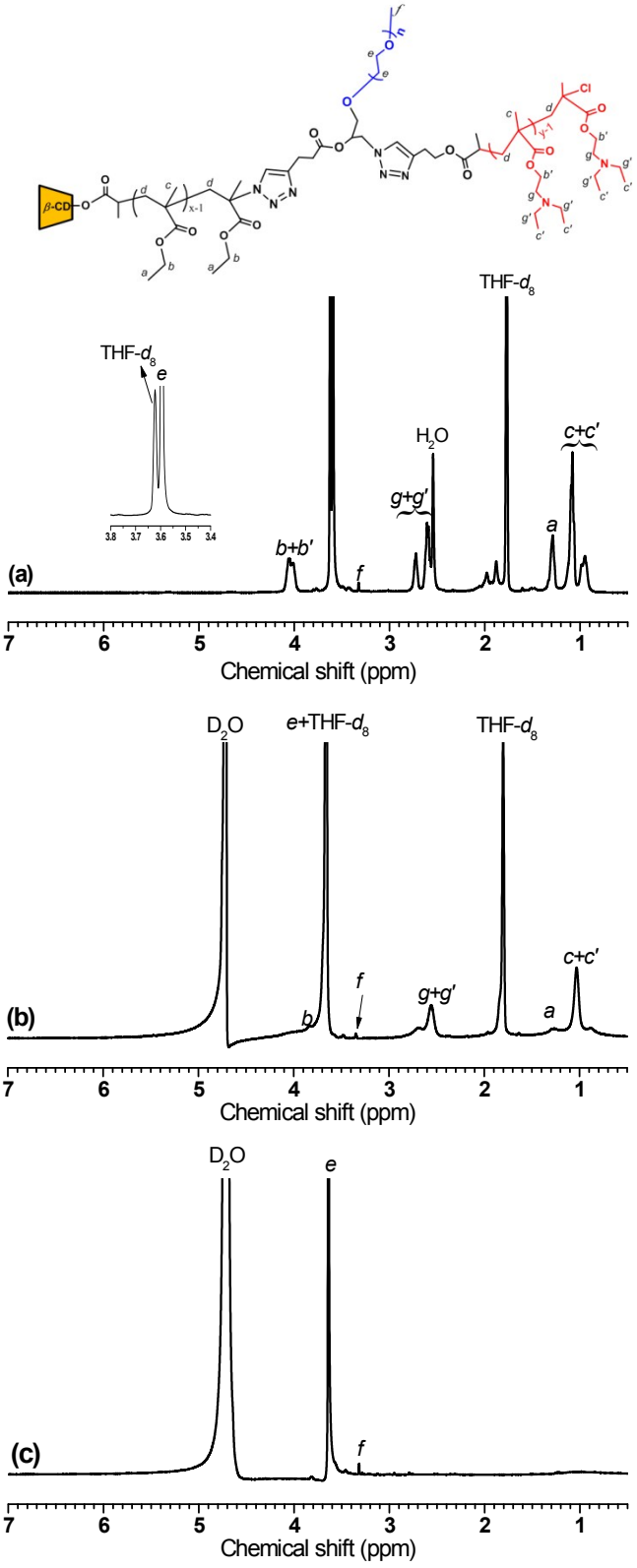

Fig. S8 ^{1}H-NMR spectrum of *CD*-star-PEMA(-*b*-PDEA)-*b*-mPEG in (a) THF-d_8, (b) THF-d_8/D_2O mixture and (c) D_2O.