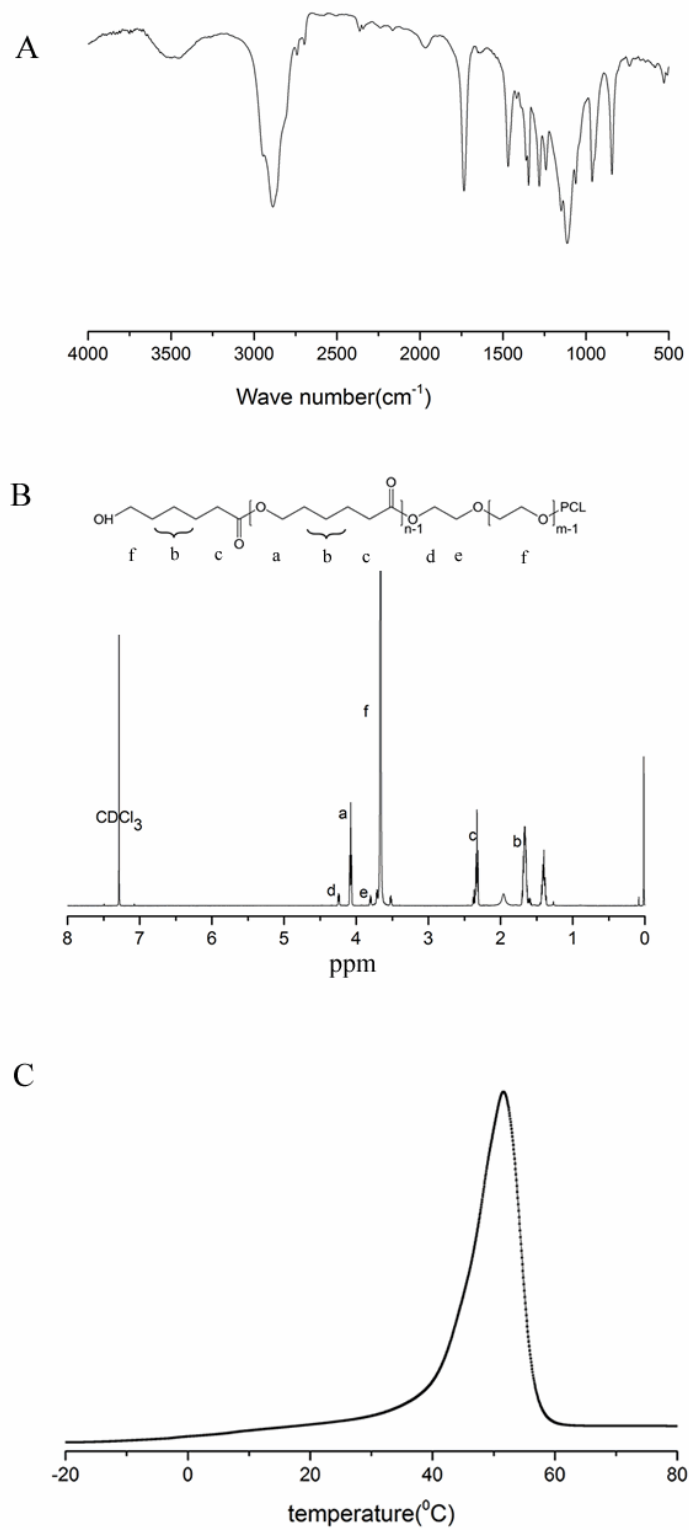


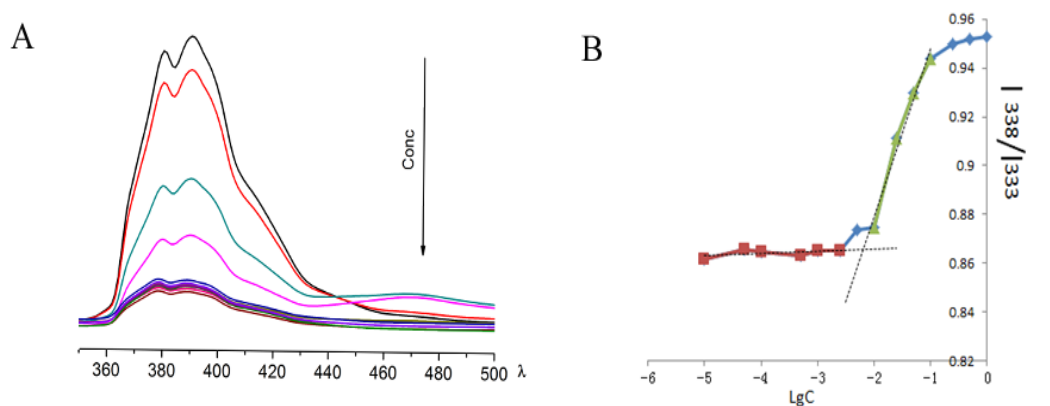
Supplementary information

**Thermo-responsive triblock copolymer micelles containing
PEG₆₀₀₀ for either water-soluble or water-insoluble drug
sustained release and treatment**

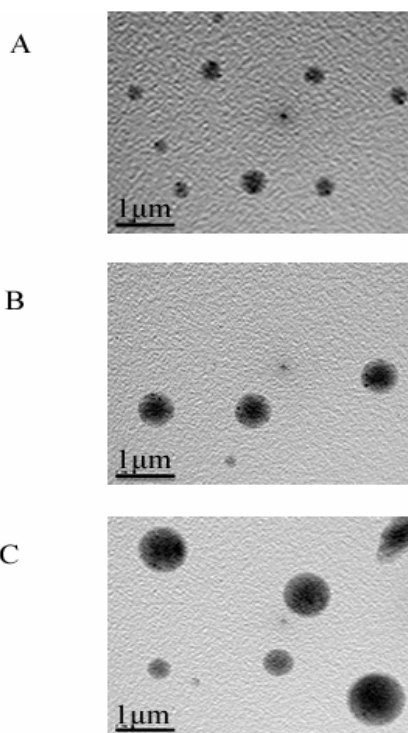
Jun Fu,^b Xinyi Lv^b and Liyan Qiu^{*a}



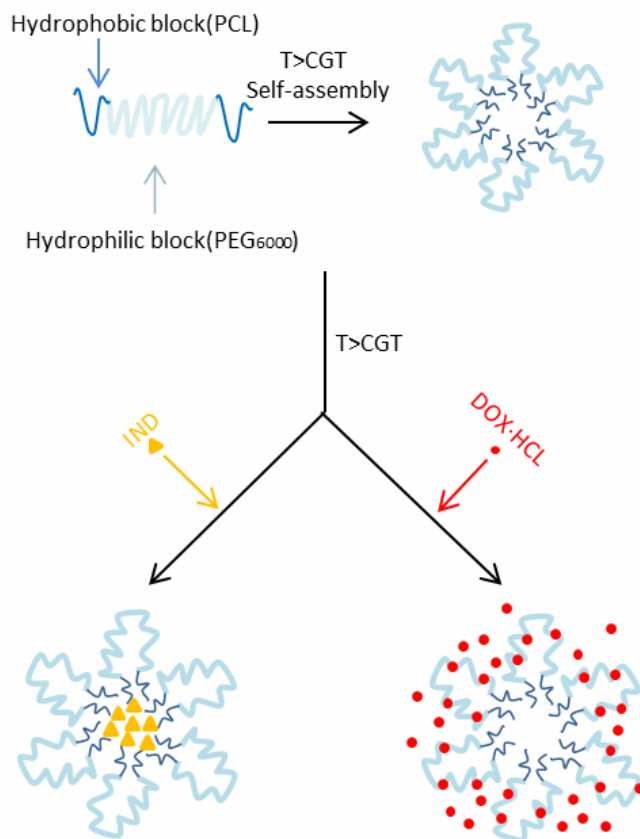
Supplementary Fig. 1 Physico-chemical characteristic of PCEC₁₀₀₀₋₆₀₀₀₋₁₀₀₀ copolymer. A. FT-IR spectra; B. ¹H-NMR spectra; C. The DSC curve.



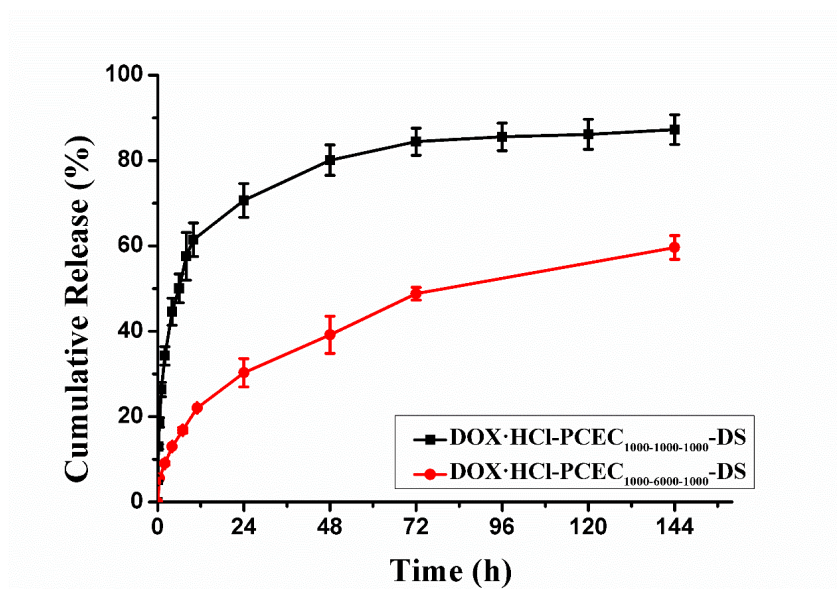
Supplementary Fig. 2 The CMC measurement of PCEC₁₀₀₀₋₆₀₀₀₋₁₀₀₀. (A) The fluorescence emission spectrum of Pyrene in different concentration of copolymer solution; (B) The ratio of fluorescence intensity at 338 and 333 nm in solution.



Supplementary Fig. 3 The TEM images of three copolymers. (A) PCEC₁₀₀₀₋₆₀₀₀₋₁₀₀₀; (B) PCEC₁₂₅₀₋₆₀₀₀₋₁₂₅₀; (C) PCEC₁₃₅₀₋₆₀₀₀₋₁₃₅₀.



Supplementary Fig. 4 The drug-loading mechanism of PCEC.



Supplementary Fig. 5 Water-soluble DOX·HCL release from PCEC₁₀₀₀₋₁₀₀₀₋₁₀₀₀ and PCEC₁₀₀₀₋₆₀₀₀₋₁₀₀₀ hydrogels.