Electronic Supplementary Information (ESI) for RSC Advances This journal is (c) The Royal Society of Chemistry 2015

Electronic Supplementary Information (ESI)

for

Injectable supramolecular hydrogels fabricated from PEGylated doxorubicin prodrug and α -cyclodextrin for pH-triggered drug delivery

Fei Li,^a Jinlin He,^a Mingzu Zhang,^a Kam Chiu Tam,^b Peihong Ni*,^a

^a College of Chemistry, Chemical Engineering and Materials Science, Suzhou Key Laboratory of

Macromolecular Design and Precision Synthesis, Jiangsu Key Laboratory of Advanced Functional Polymer Design and Application, Soochow University, Suzhou 215123, P. R. China.

^b Department of Chemical Engineering, University of Waterloo, 200 University Avenue West, Waterloo, Ontario, N2L 3G1, Canada.

* To whom correspondence should be addressed. Peihong Ni (E-mail: phni@suda.edu.cn)



Fig. S1. ¹H NMR spectra of (A) mPEG₄₅-OH, (B) mPEG₄₅-NPC and (C) mPEG₄₅-Hyd in CDCl₃ and (D) mPEG₄₅-Hyd-DOX in DMSO- d_6 .



Fig. S2. FT-IR spectra of mPEG₄₅-OH, mPEG₄₅-NPC and mPEG₄₅-Hyd.



Fig. S3. HPLC traces of (A) DOX, (B) mPEG₄₅-Hyd-DOX and (C) mPEG₄₅-Hyd-DOX after incubation with 1 M HCl for 1 h.