Supporting Information for

Reverse Micelle-Based Water-Soluble Nanoparticles for Simultaneous Bioimaging and Drug Delivery

Ying Chen, a Yong Liu, a Yongchao Yao, a Shiyong Zhang, a,b and Zhongwei Gu a

a National Engineering Research Centre for Biomaterials, Sichuan University, 29 Wangjiang Road, Chengdu 610064, China

b College of Chemistry, Sichuan University, 29 Wangjiang Road, Chengdu 610064, China

* To whom correspondence should be addressed. S. Zhang, Phone: +86-28-85411109. Fax: +86-28-85411109. E-mail: szhang@scu.edu.cn
Figure 1S. $^1$H NMR of (a) compound 2, (b) Interfacial cross-linked reverse micelles (ICRMs) and (c) acrylamide based cross-linked water-soluble nanoparticles (ACW-NPs).

Figure 2S. Fluorescence spectra of ACW-NPs@HPTS (red) and ACW-NPs@HPTS @Gem (green). (Ex = 403 nm, Em = 510 nm [1] = 0.02 M, [HPTS] = 0.03 M).

Figure 1S. $^1$H NMR of (a) compound 2, (b) Interfacial cross-linked reverse micelles (ICRMs) and (c) acrylamide based cross-linked water-soluble nanoparticles (ACW-NPs).

Figure 2S. Fluorescence spectra of ACW-NPs@HPTS (red) and ACW-NPs@HPTS @Gem (green). (Ex = 403 nm, Em = 510 nm [1] = 0.02 M, [HPTS] = 0.03 M).
Figure 3S. DLS (a) and Zeta potential (b) of ACW-NPs@HPTS and ACW-NPs@HPTS@Gem, respectively.

Figure 4S. (a) The fluorescence spectra of ACW-NPs@1,5-EDANS (Ex = 353 nm) and ACW-NPs@DABCYL (Ex = 455 nm). (b) The fluorescence spectra of CuCl$_2$/HCl destroyed ACW-NPs@1,5-EDANS&DABCYL (Ex = 309 nm, Em = 424 nm) and ACW-NPs@1,5-EDANS (Ex = 316 nm, Em = 423 nm) at pH ~6.0, respectively.
**Figure 5S.** $^1$HNMR spectrum of compound 2 in CDCl$_3$.

**Figure 6S.** $^{13}$C NMR spectrum of compound 2 in CDCl$_3$. 
Figure 7S. Mass spectrum of compound 2. HRMS: calcd. for C42H70NO4+ [M] +:
652.5299, found: 652.5288.