Supporting information

Photo-cross-linked poly(ether amine) micelles for controlled drug release

Haozhe He,† Yanrong Ren,†a Yuge Dou,† Tao Ding,† Xiaomin Fang,† Yuanqing Xu,† Hao Xu,† Wenkai Zhang,† and Zhigang Xie*‡

† College of Chemistry and Chemical Engineering, Henan University, Kaifeng, 475004, P. R. China. Fax: +86-371-23881586; Tel: +86-371-23881586; E-mail: renyr@henu.edu.cn
‡ State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, 130022, P. R. China. Fax: +86-431-85262775; Tel: +86-431-85262775; E-mail: xiez@ciac.ac.cn

NMR of DHMC

![NMR of DHMC](image)

Fig. S1 ¹H-NMR of DHMC in DMSO-d₆.

NMR of DEMC

![NMR of DEMC](image)
**Fig. S2** $^1$H-NMR of DEMC in CDCl$_3$ (A) and $^{13}$C-NMR of in DMSO-d$_6$ (B).

**CLSM of Calcein loaded micelles**

**Fig. S3** CLSM images of HepG2 cells incubated with Calcein loaded micelles for 1 h at 37°C at a concentration of 10 µM. (A) the cells with nucleus stained with DAPI (blue), (B) with Calcein fluorescence (green), (C) with lysosomes stained with Lyso-Tracker Red (red) and (D) overlapped images. (Bar = 20 µm)