Electronic Supplementary Information (ESI)

Fabrication of cross-linked fluorescent polymer nanoparticles and their cell imaging applications

Ke Wang,[a] Xiaoyong Zhang,[a,b] Xiqi Zhang,[a] Bin Yang,[a] Zhen Li,[a] Qingsong Zhang,[a] Zengfang Huang,[a] Yen Wei*[a]

[a] *Department of Chemistry and Key Laboratory of Bioorganic Phosphorus Chemistry & Chemical Biology (Ministry of Education), Tsinghua University, Beijing, 100084, China. E-mail: wangke007@iccas.ac.cn, weiyen@tsinghua.edu.cn; Fax: +86(10)6277-1149; Tel: +86(10)6277-2674*

[b] *Department of Chemistry/Institute of Polymers, Nanchang University, 999 Xuefu Avenue, Nanchang, 330031, China*

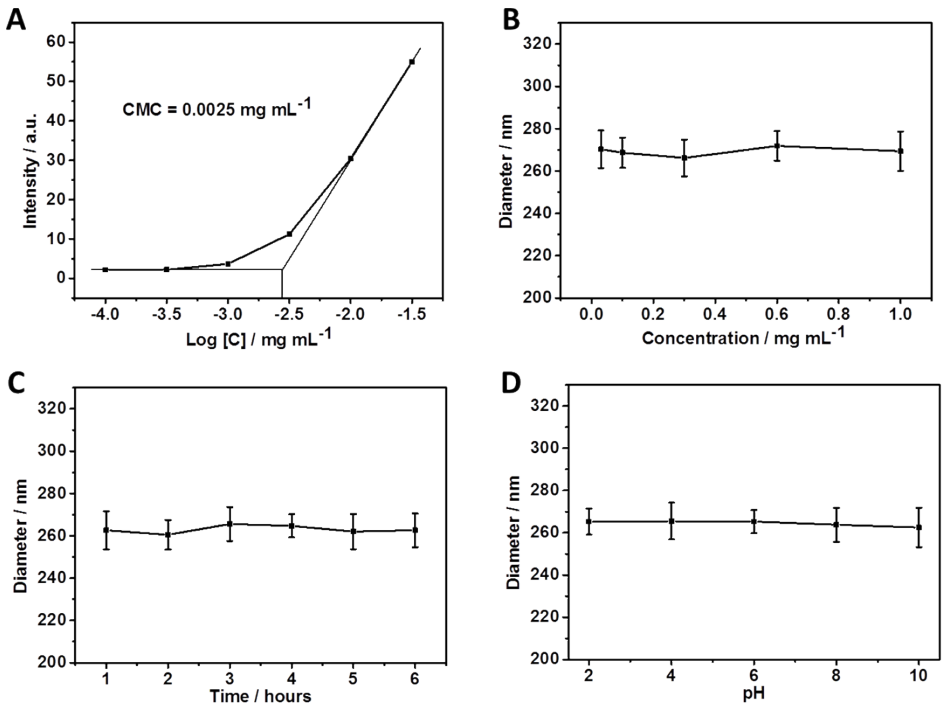

Fig. S1 (A) Intensity of the aggregate emission *vs.* logarithm of the concentration of PhE-GM-PEI FPNs (λex = 488 nm and λem = 580 nm); (B) Hydrodynamic size changes of PhE-GM-PEI FPNs at different concentrations incubated in PBS at 25 °C; (C) Hydrodynamic size changes of PhE-GM-PEI FPNs incubated in PBS (1 mg mL^{-1}) at 25 °C for 6 hours; (D) Hydrodynamic size changes of PhE-GM-PEI FPNs incubated in PBS of different pH (1 mg mL^{-1}) at 25 °C .

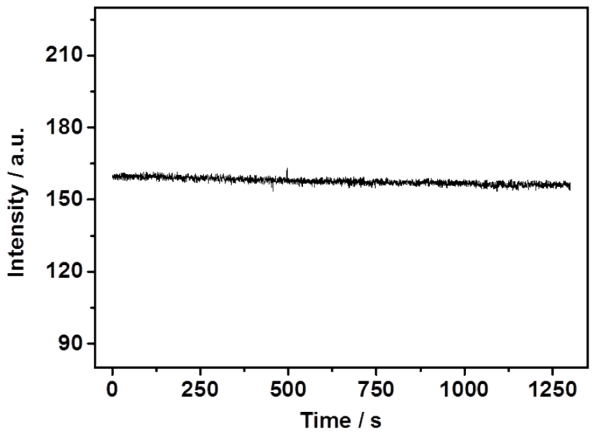

Fig. S2 The fluorescence time traces of PhE-GM-PEI FPNs monitored at 580 nm (λex = 488 nm) for more than 20 min, suggesting the durable photostability of the PhE-GM-PEI FPNs.

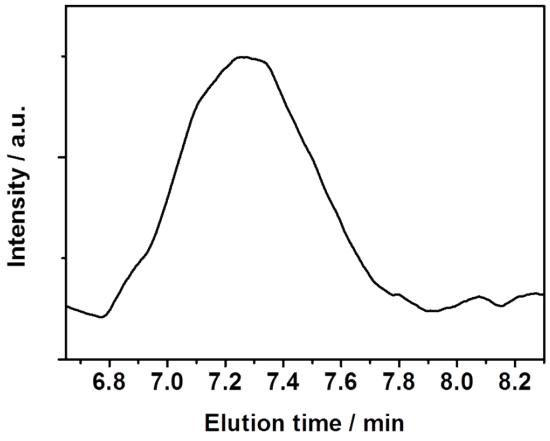

Fig. S3 GPC chart of PhE-GM-PEI (eluent: DMF).