

Supporting Information

**pH-responsive biodegradable polymeric micelles with anchors to
interface magnetic nanoparticles for MR Imaging in detection of
cerebral ischemic area**

Hong Yu Yang,^a Moon-Sun Jang,^b Guang Hui Gao,^c Jung Hee Lee^{*b} and Doo Sung Lee^{*a}

^a Theranostic Macromolecules Research Center, School of Chemical Engineering, Sungkyunkwan

University, Suwon 440-746, Republic of Korea. E-mail: dslee@skku.edu

^b Department of Radiology, Samsung Medical Center, Sungkyunkwan University School of Medicine
and Center for Molecular and Cellular Imaging, Samsung Biomedical Research Institute, Seoul 135-
710, Republic of Korea.

^c Engineering Research Center of Synthetic Resin and Special Fiber, Ministry of Education, Changchun
University of Technology, Changchun 130012, China

Supporting information:

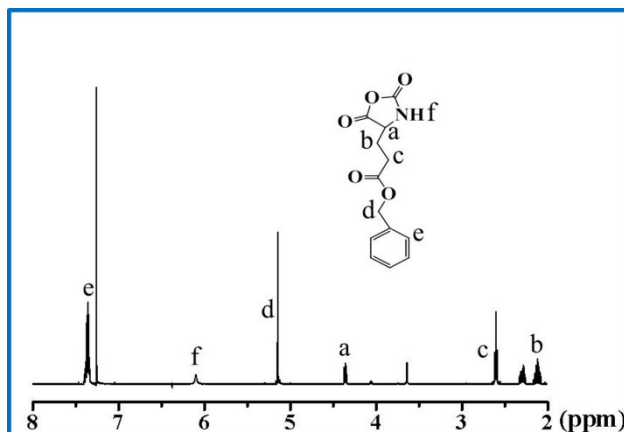


Fig. S1 ¹H NMR spectra of BLG-NCA (500MHz, CDCl₃)

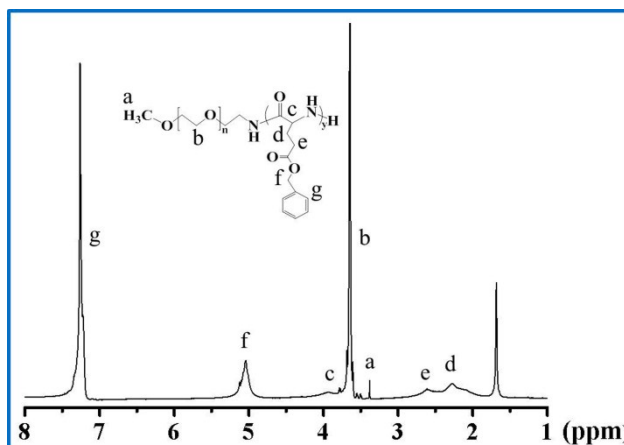


Fig. S2 ¹H NMR spectra of mPEG-PBLG (500MHz, CDCl₃)

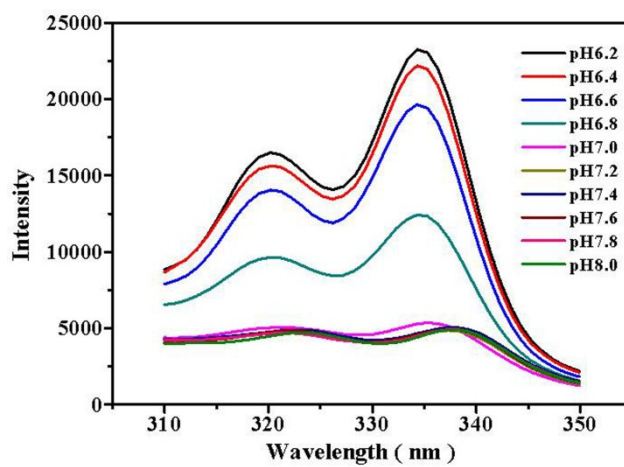


Fig. S3 Fluorescence intensity of pyrene at different pH in mPEG-P(DPA-DE)LG copolymer solution (1mg/mL).

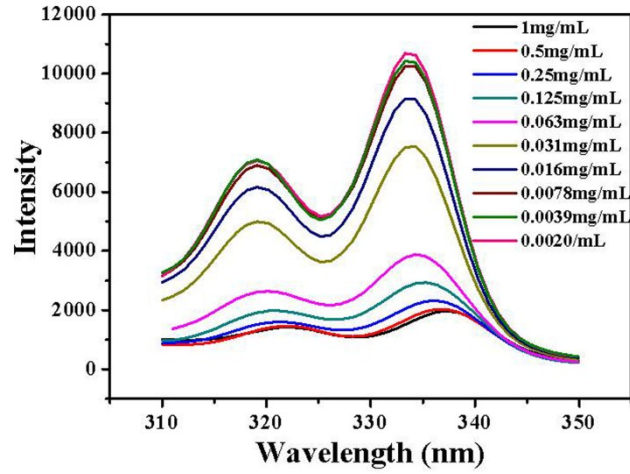


Fig. S4 Fluorescence intensity of pyrene in mPEG-P(DPA-DE)LG copolymer solution of different concentrations.

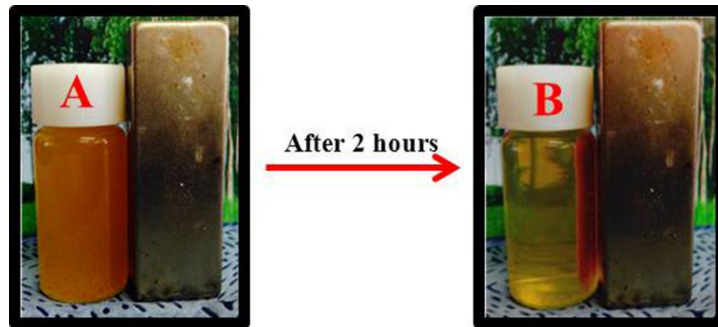


Fig. S5 photographs of the Fe₃O₄-loaded mPEG-b-P(DPA-DE)LG polymeric micelles aqueous solution with applied magnetic field at 0 h(A) and 2h (B).