Supplementary Material (ESI) for Nanoscale

Electronic Supplementary Information

Bright Fluorescent Nanoparticles for Development of Potential Optical Imaging Contrast Agents

Guorong Sun,[a,b] Mikhail Y. Berezin,*[b] Jinda Fan,[b] Hyeran Lee,[b] Ke Zhang,[a,b] Karen L. Wooley,*[a,b,c] and Samuel Achilefu*[b]

[a] *Department of Chemistry, Washington University in Saint Louis, Saint Louis, MO 63130, USA*

[b] *Department of Radiology, Washington University School of Medicine, Saint Louis, MO 63110, USA*

[c] *Department of Chemistry and Department of Chemical Engineering, Texas A&M University, College Station, TX 77842, USA*

* To whom correspondence or reprint requests should be addressed:

Email: berezinm@mir.wustl.edu, wooley@mail.chem.tamu.edu, achilefu@wustl.edu

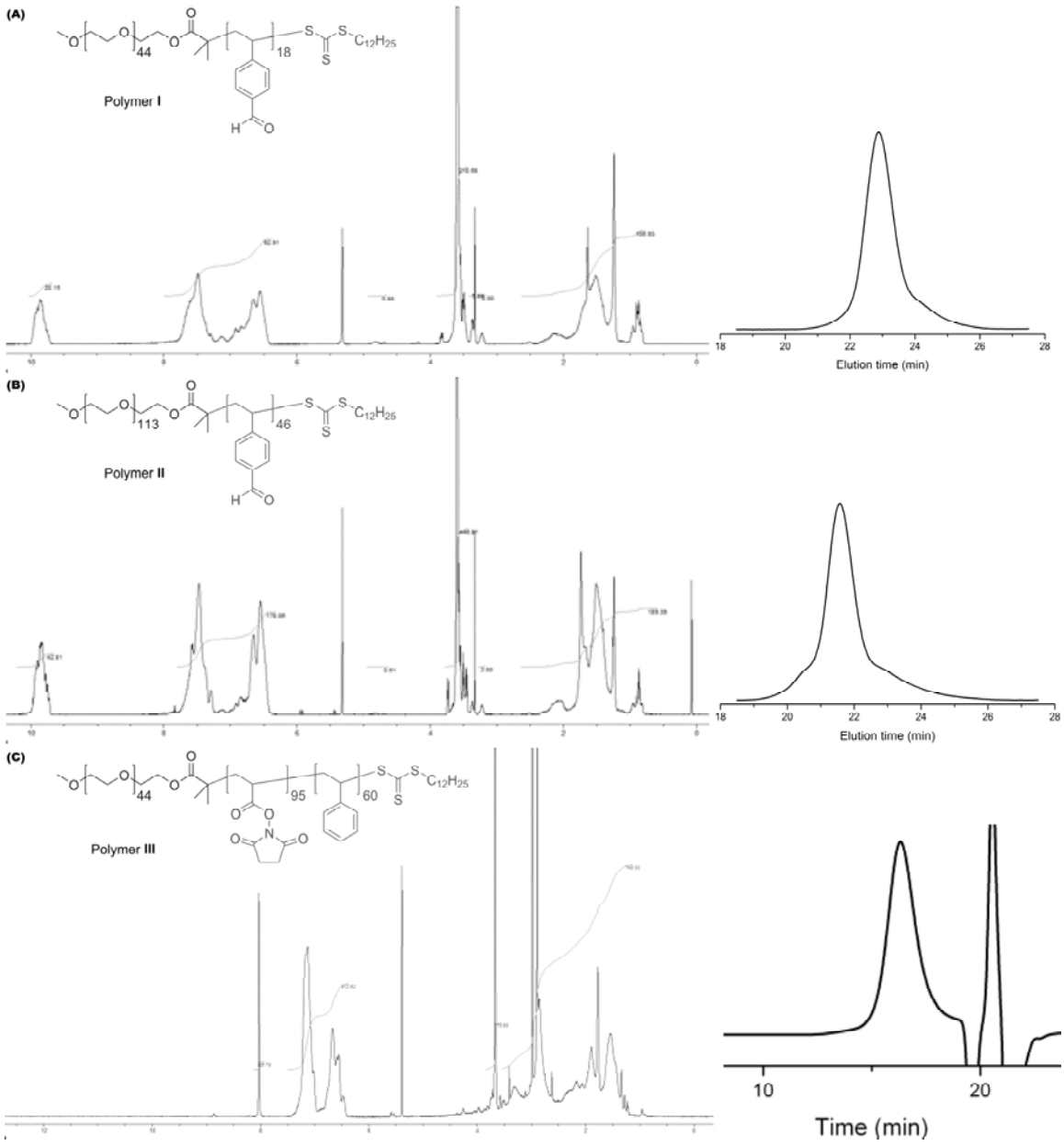

Fig. S1 Characterizations of PEO_{45}-*b*-$PVBA_{18}$ (**I**) PEO_{113}-*b*-$PVBA_{46}$ (**II**), and PEO_{45}-*b*-$PNAS_{95}$-*b*-PS_{60} (**III**) block copolymer precursors. (A): ^{1}H NMR spectrum (left, 500 MHz, CD_2Cl_2) and THF-GPC profile (right) of PEO_{45}-*b*-$PVBA_{18}$ block copolymer. (B): ^{1}H NMR spectrum (left, 500 MHz, CD_2Cl_2) and THF-GPC profile (right) of PEO_{45}-*b*-$PVBA_{18}$ block copolymer. (C): ^{1}H NMR spectrum (left, 600 MHz, CD_2Cl_2) and DMF-GPC profile (right) of PEO_{45}-*b*-$PNAS_{95}$-*b*-PS_{60} block copolymer.

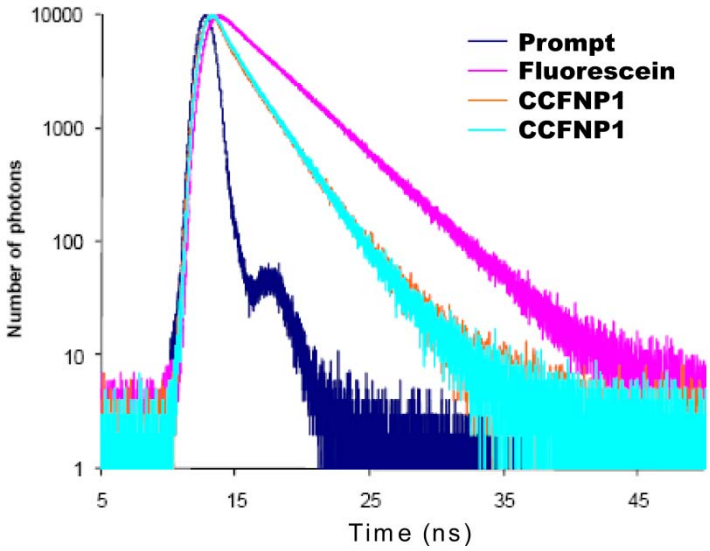

Fig. S2 Dynamic fluorescence spectra of **Fluorescein** and **CCFNP1**.

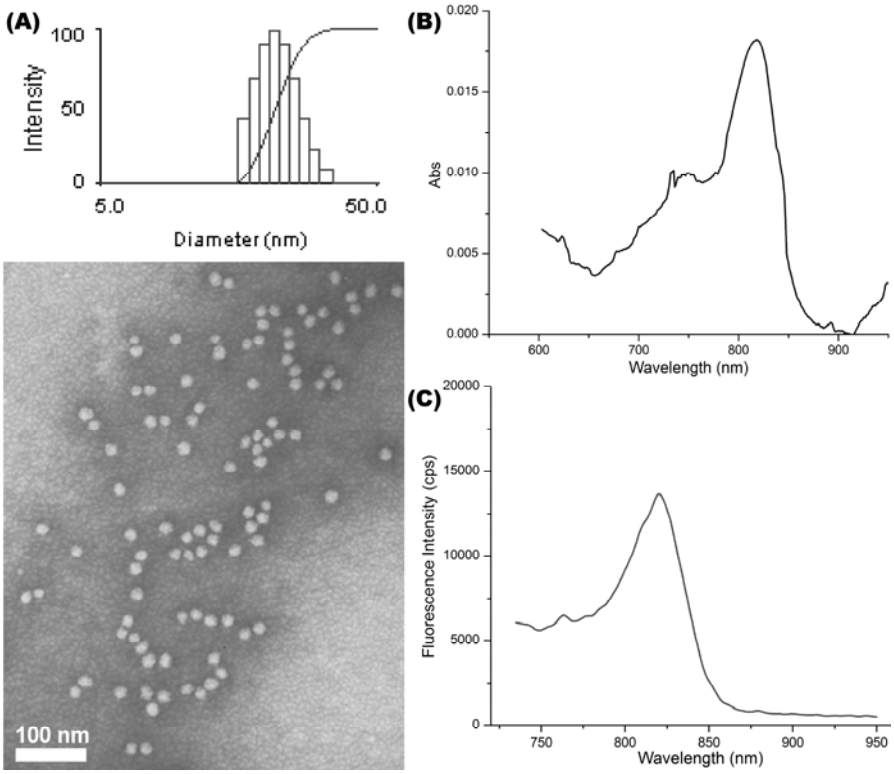

Fig. S3 A) Intensity-average weighted hydrodynamic diameter distribution by DLS (top) and TEM micrograph (bottom) of **CCFNP8**. B-C) UV-Vis and fluorescence spectrum of **CCFNP8**, respectively.