Supporting Information

NIR-Emitting Semiconducting Polymer Nanoparticles for In Vivo

Two-Photon Vascular Imaging

Xiao-Ting Gong, ^{#1} Wenguang Xie,^{#2} Jing-Jing Cao, ^{*1} Shengxiang Zhang, ^{*2} Kanyi

Pu*3 and Hao-Li Zhang*1,4

¹State Key Laboratory of Applied Organic Chemistry (SKLAOC); Key Laboratory of Special Function Materials and Structure Design (MOE); College of Chemistry and Chemical Engineering, Lanzhou University, Lanzhou, 730000, P. R. China ²School of Life Sciences, Lanzhou University, Lanzhou, 730000, P. R. China ³Chemical and Biomedical Engineering, Nanyang Technological University of Singapore, Singapore 637457 ⁴Tianjin Key Laboratory of Molecular Optoelectronic Sciences, Department of

Chemistry, Tianjin University, and Collaborative Innovation Center of Chemical Science and Engineering (Tianjin), Tianjin University, Tianjin 300072, P. R. China

E-mail: haoli.zhang@lzu.edu.cn (H.Z.)

These authors contributed equally to this work.

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1. Two-photon microscopic angiographic study of the mouse brain

Figure S1. Long-term two-photon fluorescence microscopic imaging of the mouse brain. Images were captured at different time points after the injection of NESPN.

2. Histological study



Figure S2. Biodistribution of main organs of NESPN-treated mice after 24 h post injection (100 μ L).

3. Statistics of capillary diameter



Figure S3. Statistics of capillary diameter in Figure 2b-II.

4. Cytotoxicity assay of NESPN in 4T1 cells



Figure S4. Cytotoxicity assay of NESPN in 4T1 cells.

5.	Statistics	of Dyna	<mark>mic Light</mark>	Scattering	(DLS)
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Sample ID Operator ID Elapsed Time Mean Diam. Rel. Var. Skew RmsError	spns Unknown Operator 00:02:01 66.9 (nm) 0.000 0.055 4.9767e-02					100 50 0 50.0	500.0 Diameter (nm)		
d	G(d)	C(d)	d	G(d)	C(d)	d	G(d)	C(d)	
61.49	0	0	68.73	13	100	76.82	0	100	
62.11	0	0	69.43	0	100	77.60	0	100	
62.74	0	0	70.13	0	100	78.39	0	100	
63.38	0	0	70.85	0	100	79.19	0	100	
64.03	0	0	71.57	0	100	79.99	0	100	
64.68	0	0	72.29	0	100	80.81	0	100	Print Window
65.34	24	7	73.03	0	100	81.63	0	100	
66.00	62	25	73.77	0	100	82.46	0	100	Copy For Spreadsheet
66.67	100	55	74.52	0	100	83.30	0	100	· · · · · · · · · · · · · · · · · · ·
67.35	89	81	75.28	0	100	84.15	0	100	<u>Copy to Clipboard</u>
68.04	51	96	76.05	0	100	85.00	0	100	Close

Figure S5. Statistics of dynamic light scattering (DLS)