

Supporting materials for:

## Reduction-responsive Polypeptide Nanogel Encapsulating NIR Photosensitizer for Imaging Guided Photodynamic Therapy

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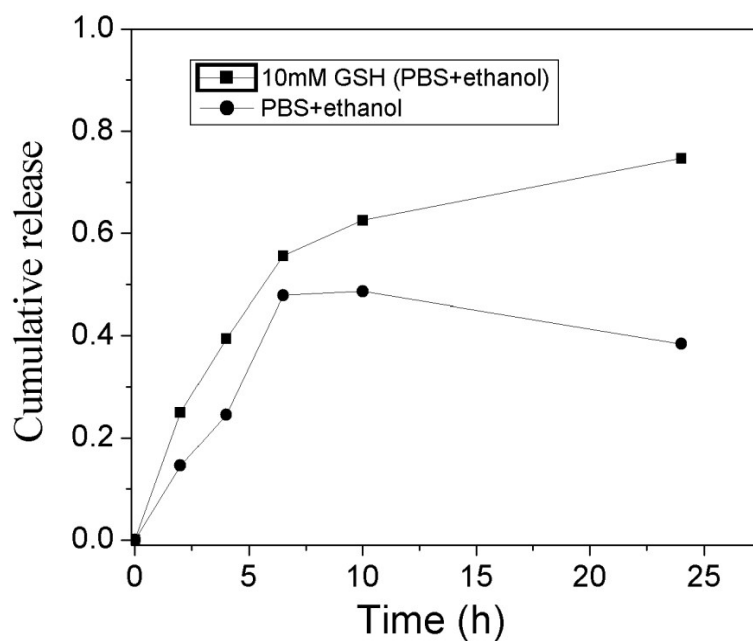


Figure S1: Accumulative release of Br<sub>2</sub>-808 from cyanine-loaded nanogel in mixture of PBS and ethanol in or not the presence of 10 mM GSH.

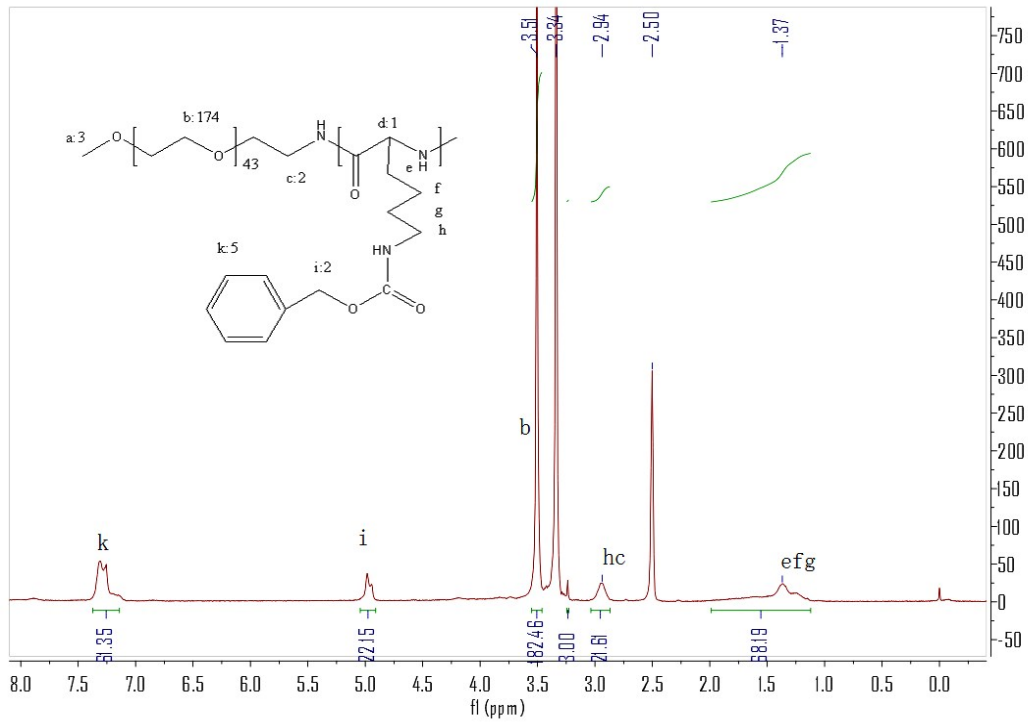


Figure S2. <sup>1</sup>H-NMR spectrum of PEG-PZLL

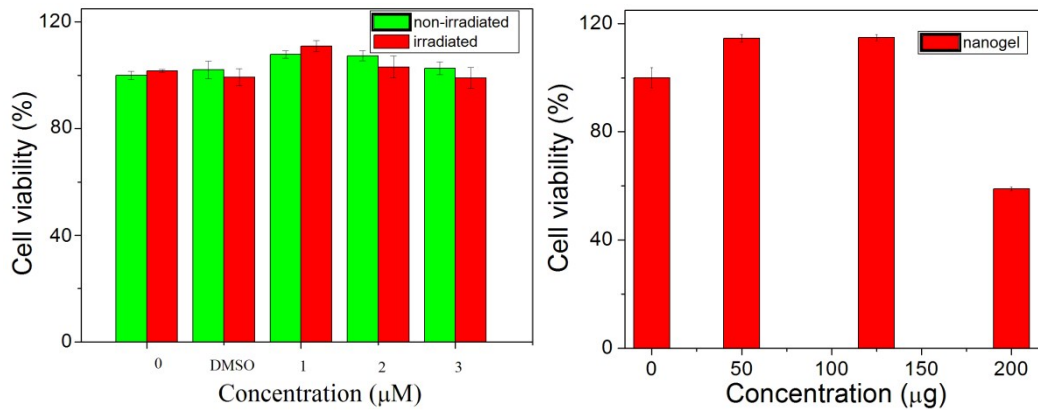


Figure S3. Cell viability of free cyanine contained 0.1% DMSO under dark or light and nanogel.

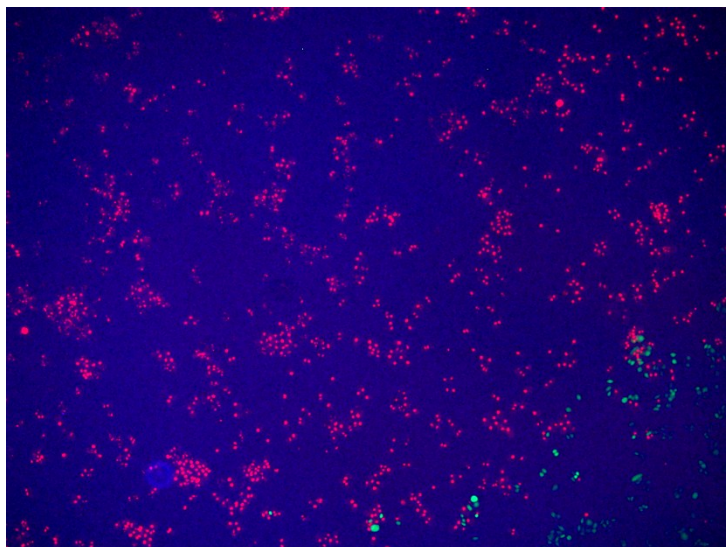


Figure S4: FDA/PI live/dead staining of cell incubated with cyanine-loaded nanogel under irradiated condition.