Supporting Information for

A Near-Infrared Dual-Emission Ratiometric Fluorescence Imaging Nanoprobe for Real-Time Tracing the Generation of Endogenous Peroxynitrite in Single Living Cell and in Vivo

Pengxiang Lin, Dongxia Chen, Liangliang Zhang,* Jiayao Xu, Yong Huang, and Shulin Zhao*

State Key Laboratory for the Chemistry and Molecular Engineering of Medicinal Resources, Guangxi Normal University, Guilin, 541004, China.

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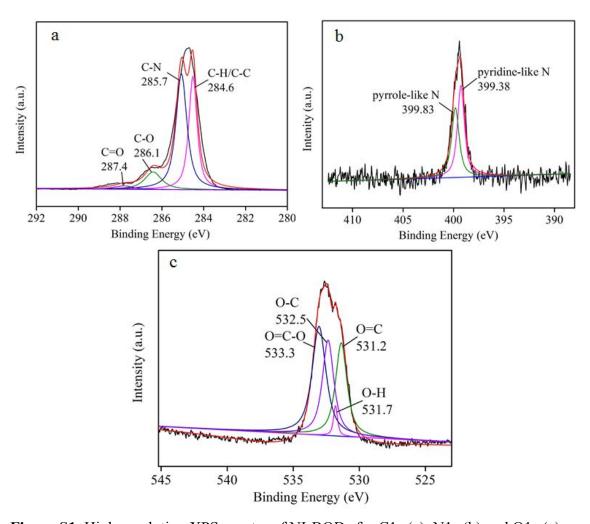


Figure S1. High-resolution XPS spectra of NI-BQDs for C1s (a), N1s (b) and O1s (c).

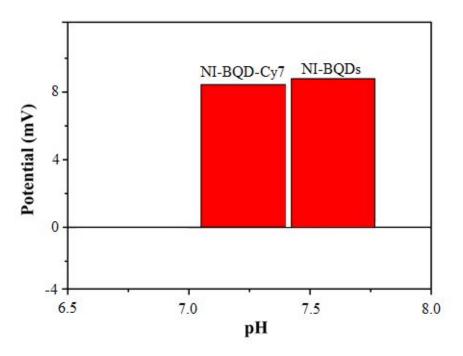


Figure S2. Zeta-potential of the as-prepared NI-BQDs and NI-BQD-Cy7.

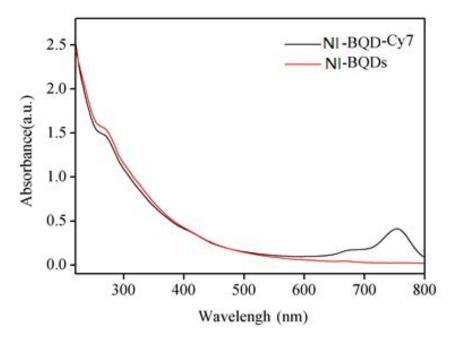


Figure S3. The UV-Vis spectra of NI-BQDs and NI-BQD-Cy7.

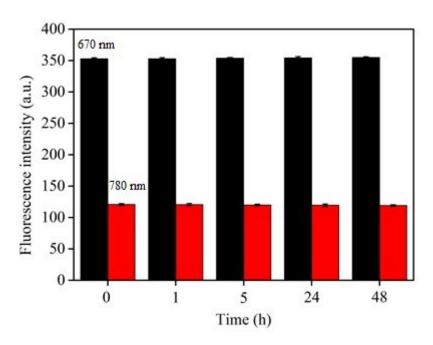


Figure S4. Stability of NI-BQD-Cy7 fluorescent nanoprobe in aqueous solution.

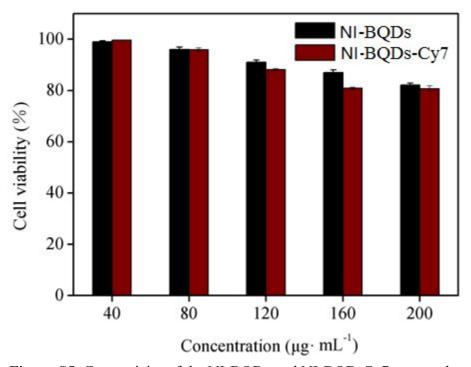


Figure S5. Cytotoxicity of the NI-BQDs and NI-BQD-Cy7 nanoprobes.

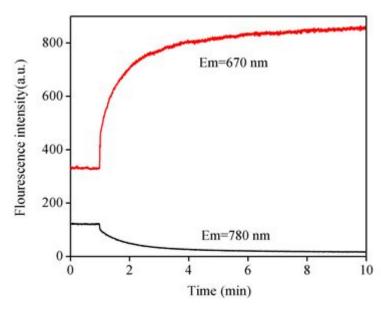


Figure S6. Kinetics curve for the change of fluorescence intensity of NI-BQD-Cy7 after the addition of ONOO⁻.

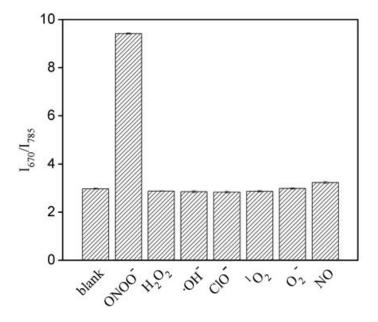


Figure S7. Selectivity of the NI-BQD-Cy7 nanoprobe in the presence of other bioactive RNS and ROS molecules.

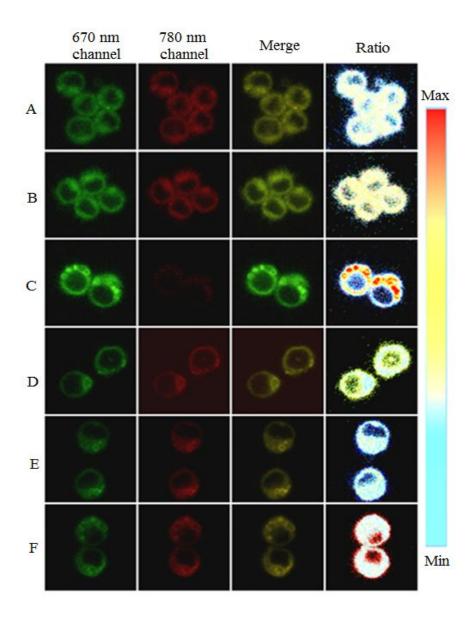


Figure S8. Dual channel ratiometric fluorescence images of exogenous ONOO⁻ in living cells. The RAW264.7 cells solution containing NI-BQD-Cy7 nanoprobe was incubated with PBS solution (A), 100 μM SIN-1 solution (B), 1 mM SIN-1 solution (C), a mixed solution contining 1 mM SIN-1 and 100 μM tetracycline (D), 100 μM MSB (E) and 500 μM NOC-18 solution (F).

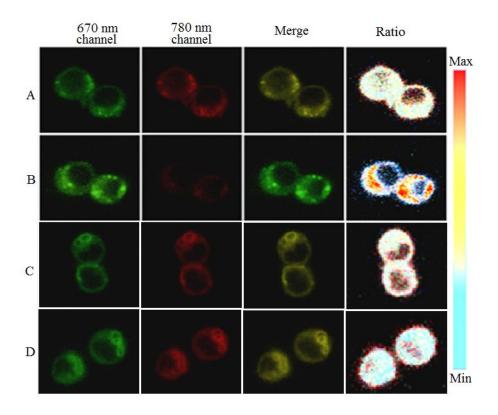


Figure S9. Dual channel ratiometric fluorescence images of endogenous ONOO⁻ in living cells. The RAW264.7 cells solution containing NI-BQD-Cy7 nanoprobe was incubated with PBS solution (A), a mixed solution contining 50 ng/mL INF-γ, 1 μg/mL LPS and 25 nM PMA (B), a mixed solution contining 50 ng/mL INF-γ, 1 μg/mL LPS, 25 nM PMA and 100 μM 1400W (C), a mixed contining 50 ng/mL INF-γ, 1 μg/mL LPS, 25 nM PMA and 100 μM apocynin (D).