

Supporting Information

Rational design of a selective and sensitive “turn-on” fluorescent probe for monitoring and imaging hydrogen peroxide in living cells

Jing Lu,^a Liang Ji,^b and Yanyan Yu^{*,b}

^a *The First Clinical Medical College, Xuzhou Medical University, 209 Tongshan Road, Xuzhou 221004, Jiangsu, China;*

^b *Jiangsu Key Laboratory of New Drug Research and Clinical Pharmacy, Xuzhou Medical University, 209 Tongshan Road, Xuzhou 221004, Jiangsu, China.*

*Corresponding Author:

Email: yyyxzmc@163.com; Tel: 86 516 83262138.

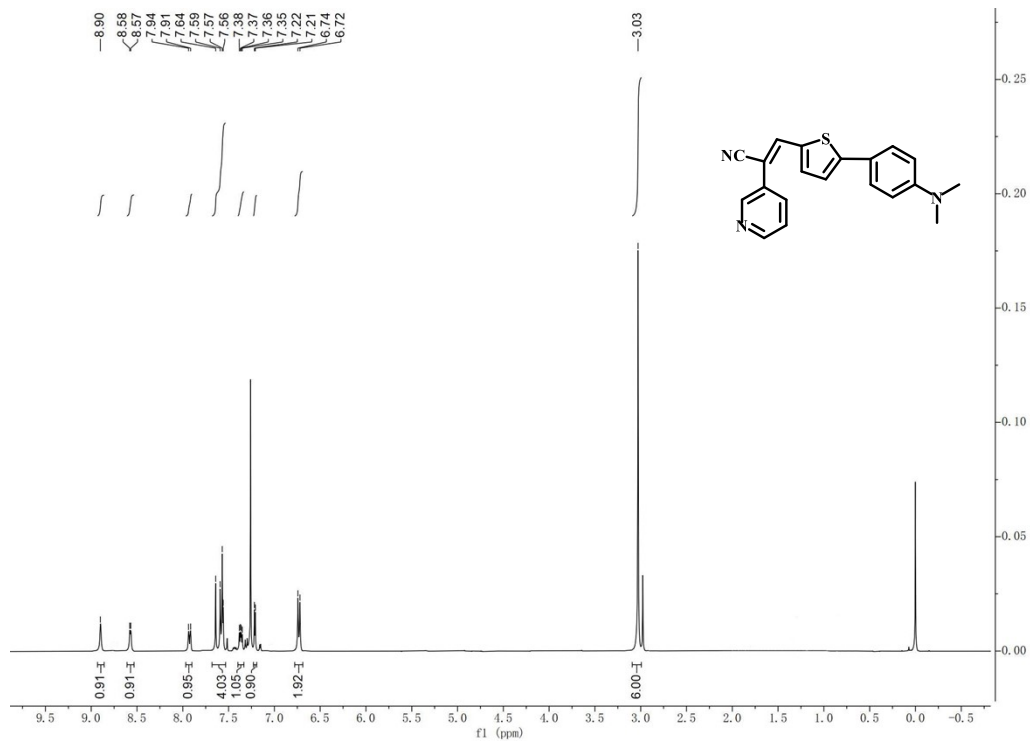


Figure S1. ^1H NMR spectrum of N-Py.

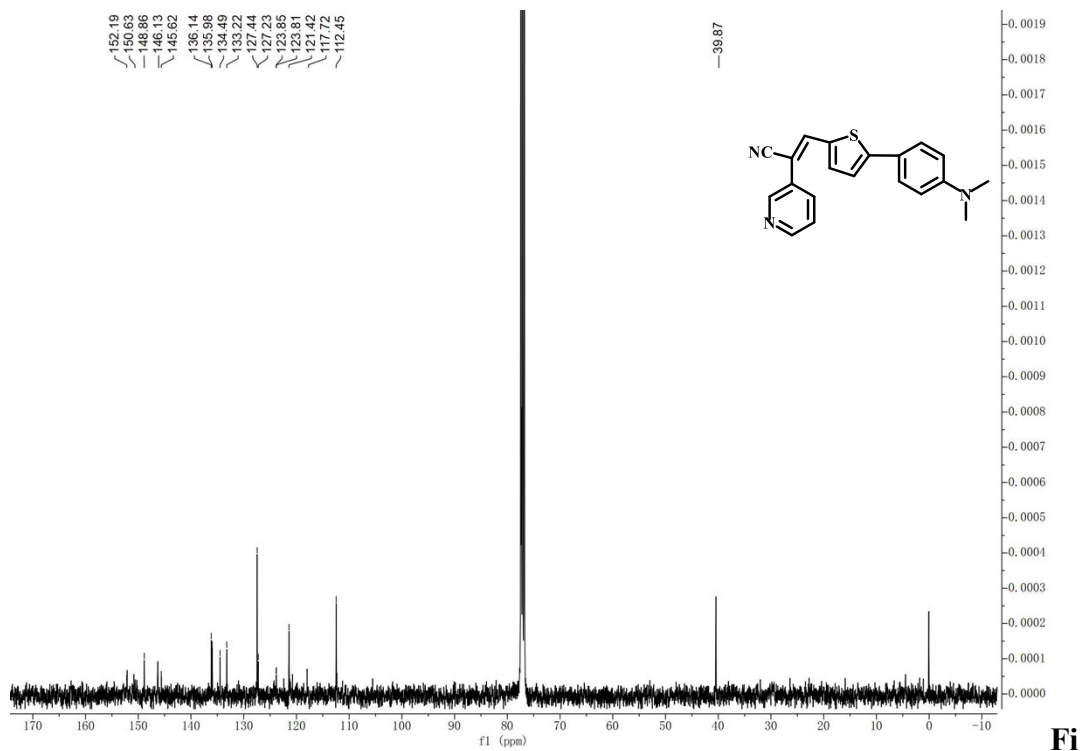


Figure S2. ^{13}C NMR spectrum of N-Py.

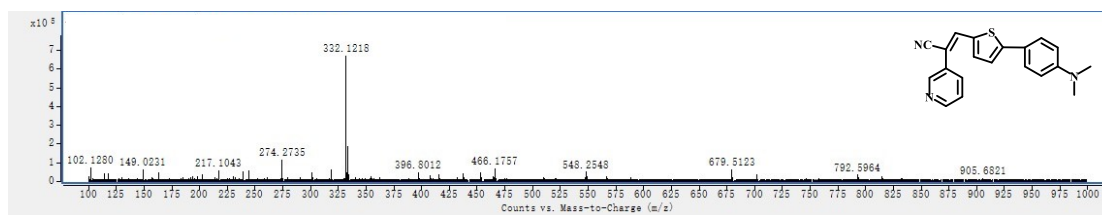


Figure S3. HRMS spectrum of N-Py.

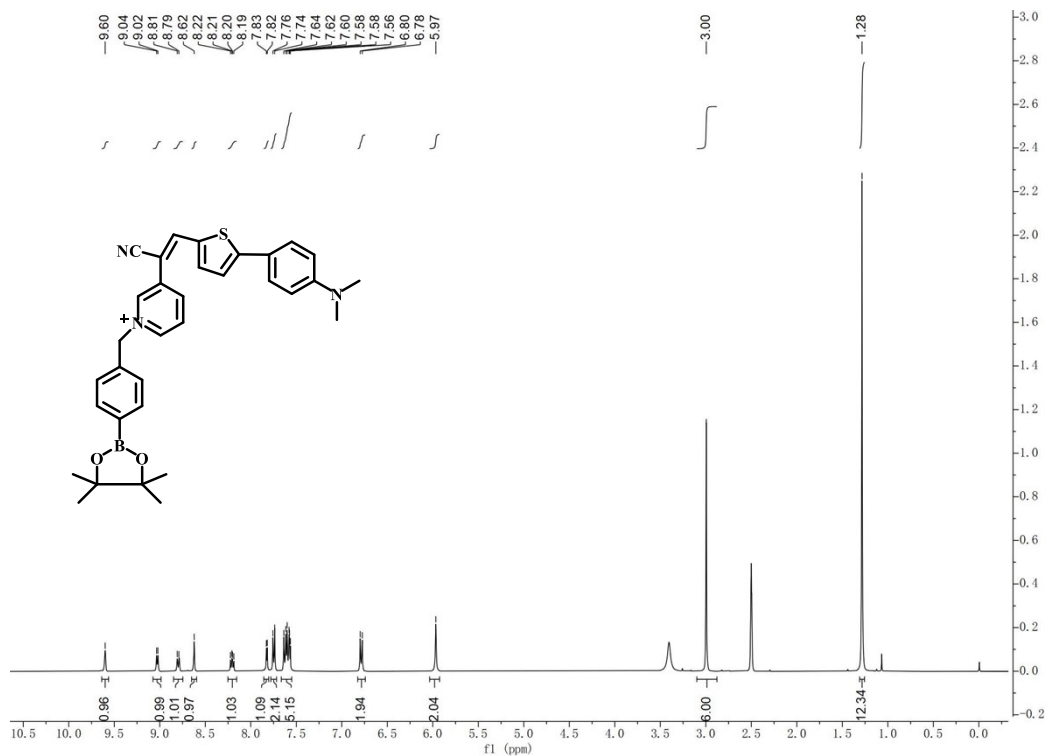


Figure S4. ¹H NMR spectrum of N-Py-BO.

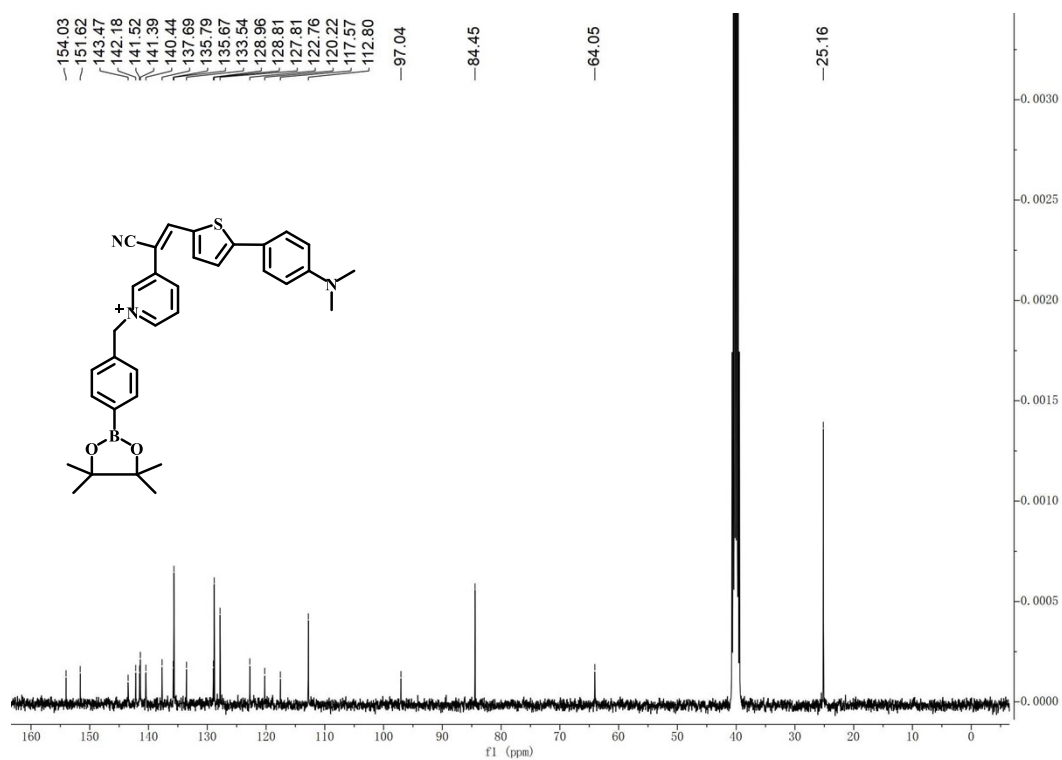


Figure S5. ¹³C NMR spectrum of N-Py-BO.

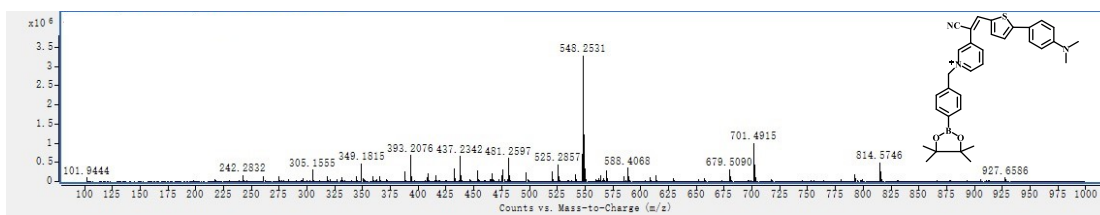


Figure S6. HRMS spectrum of N-Py-BO.

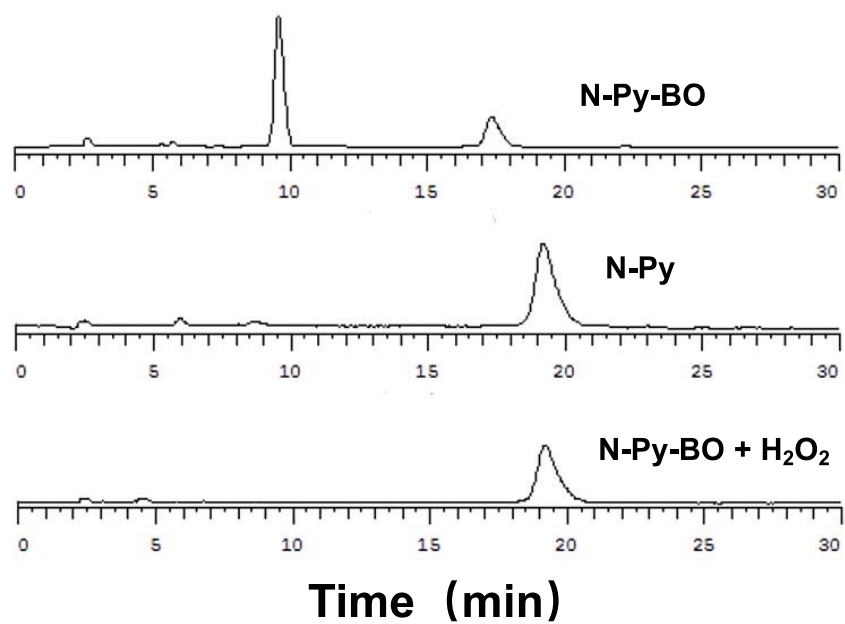


Figure S7. HPLC chromatograms of N-Py-BO before and after reaction with H₂O₂.
Mobile phase: Methanol / H₂O = 75: 25.

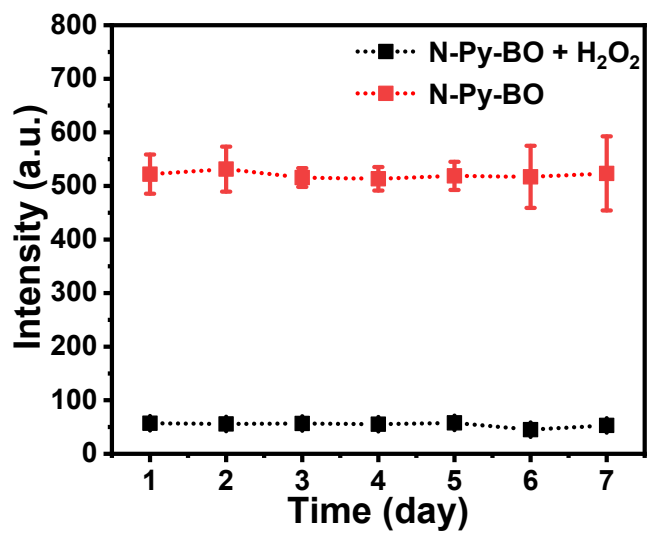


Figure S8. The photostability investigation of the N-Py-BO probe (10 μ M) in the absence and presence of 100 μ M H₂O₂. Emission wavelength: 650 nm.