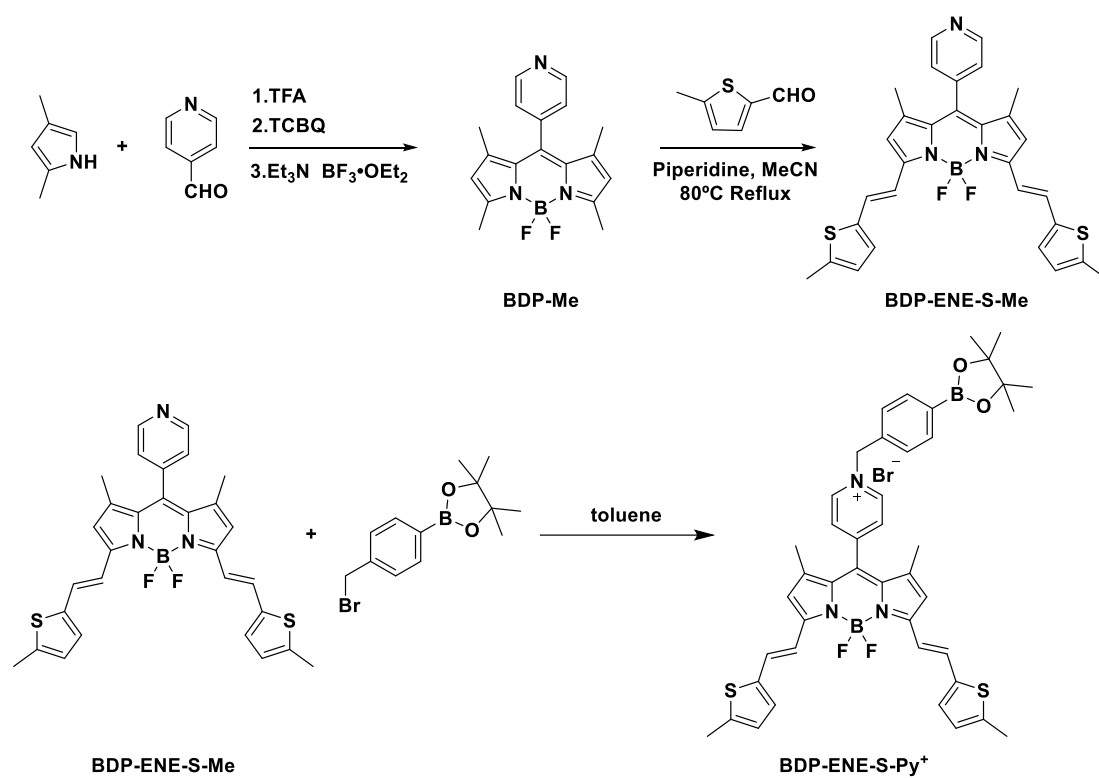


Table of contents

1. Synthesis	S2
2. Supplementary Data	S2
3. NMR data	S5

1. Synthesis

Scheme S1. The synthesis routine of **BDP-ENE-S-Py⁺**.

2. Supplementary Date

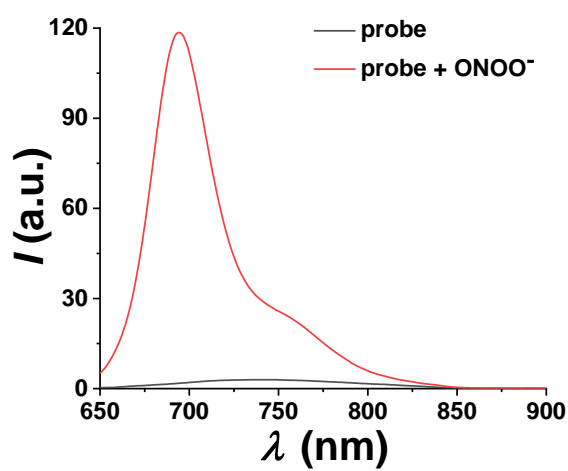


Figure S1. Fluorescence emission spectra of probe **BDP-ENE-S-Py⁺** (10 μ M) before and after reaction with **ONOO⁻** (100 μ M).

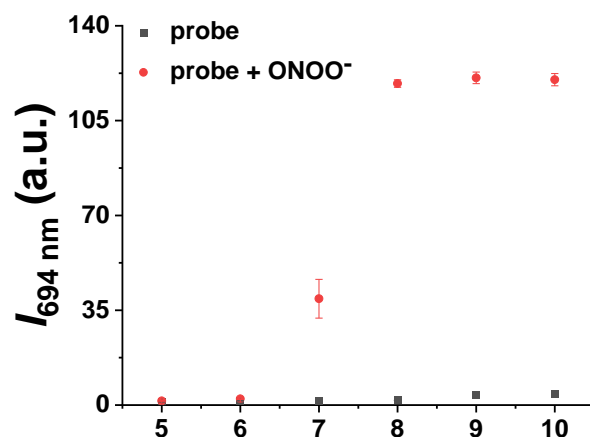


Figure S2. Fluorescence intensity spectra of the probe **BDP-ENE-S-Py⁺** (10 μ M) reacted with **ONOO⁻** (100 μ M) at different pH values for 2 min. The reaction was carried out in acetonitrile/PBS (1:1, v/v, 10 mM, pH 7.4) at room temperature. λ_{ex} = 630 nm and λ_{em} = 694 nm.

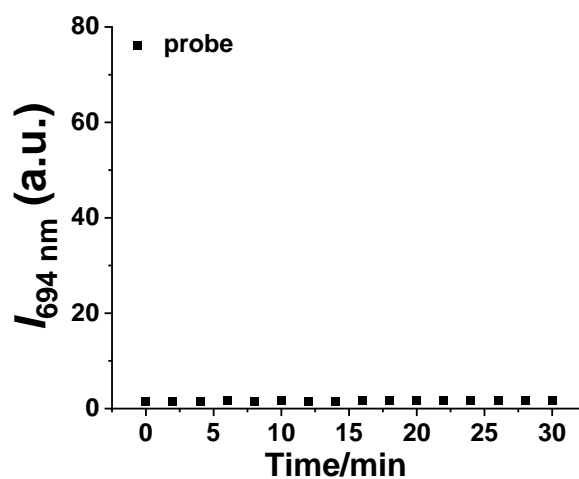


Figure S3. Probe time stability test. The probe **BDP-ENE-S-Py⁺** (10 μ M) was measured in the buffer system every two minutes for 30 minutes. The buffer system was acetonitrile/PBS (1:1, v/v, 10 mM, pH 7.4). λ_{ex} = 630 nm and λ_{em} = 694 nm.

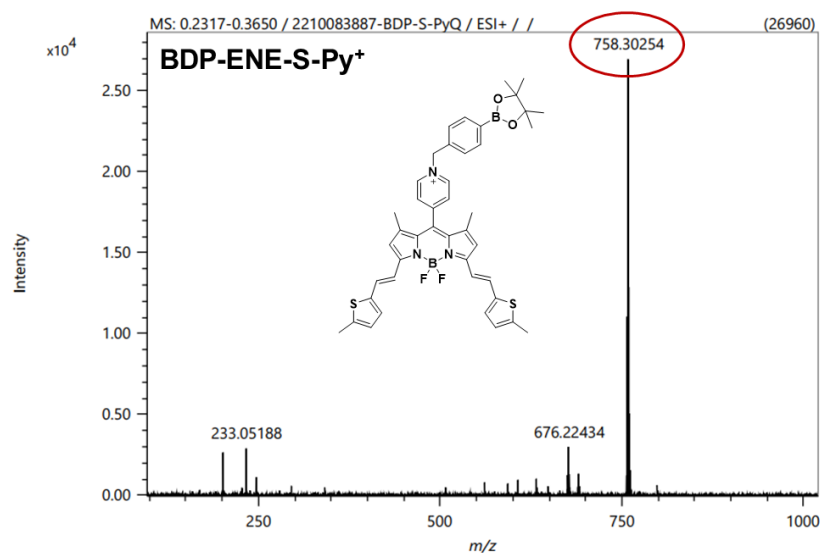


Figure S4. The ESI-MS of BDP-ENE-S-Py⁺.

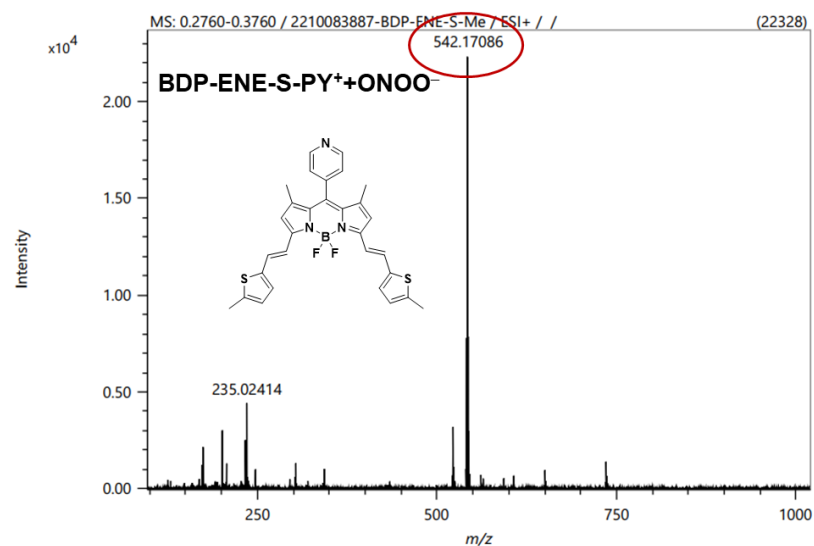


Figure S5. The ESI-MS of BDP-ENE-S-Py⁺ upon addition of ONOO⁻.

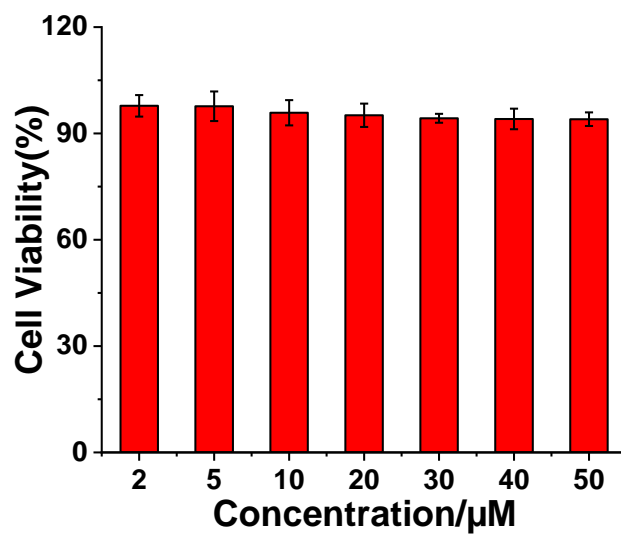


Figure S6. Cytotoxicity assays of BDP-ENE-S-Py⁺ in living HepG2 cells.

3. NMR data

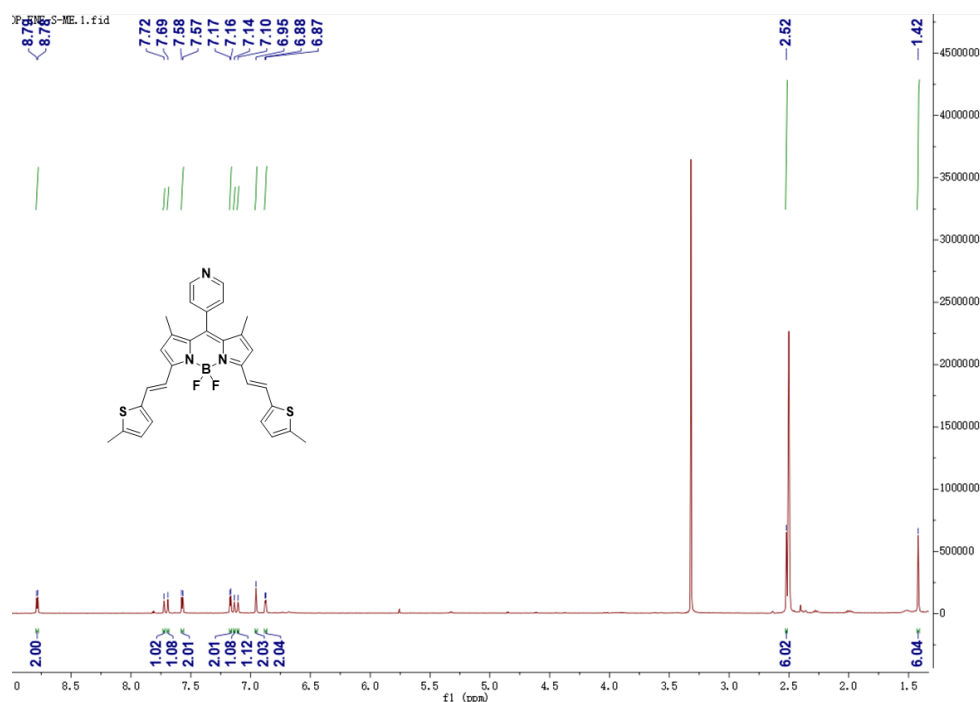


Figure S7. ¹H NMR of BDP-ENE-S-Me.

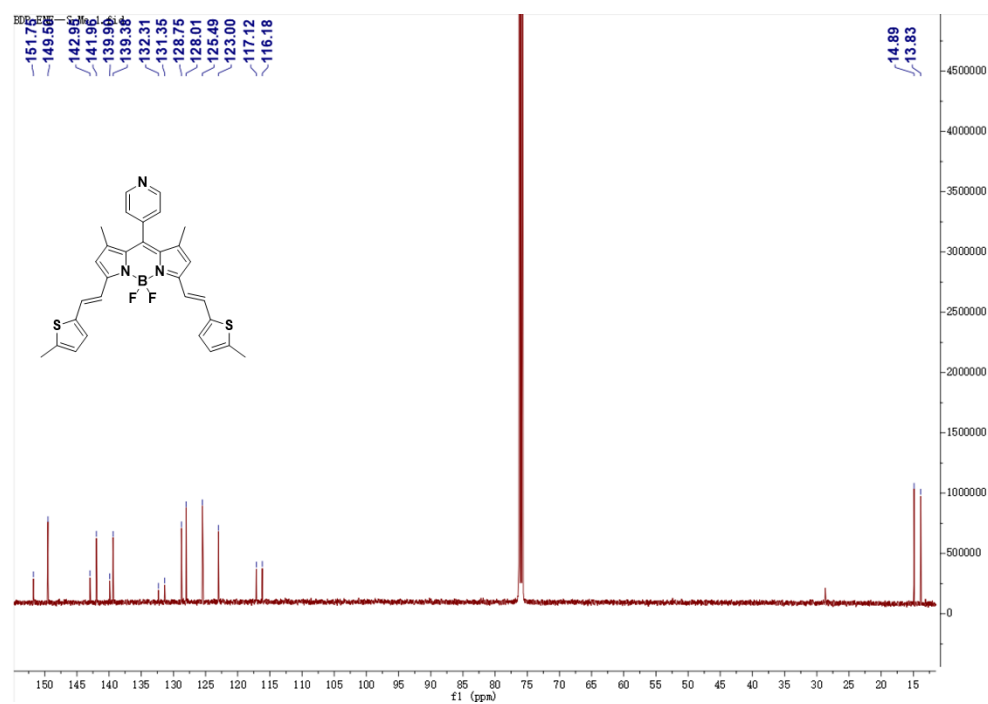


Figure S8. ¹³C NMR of BDP-ENE-S-Me.

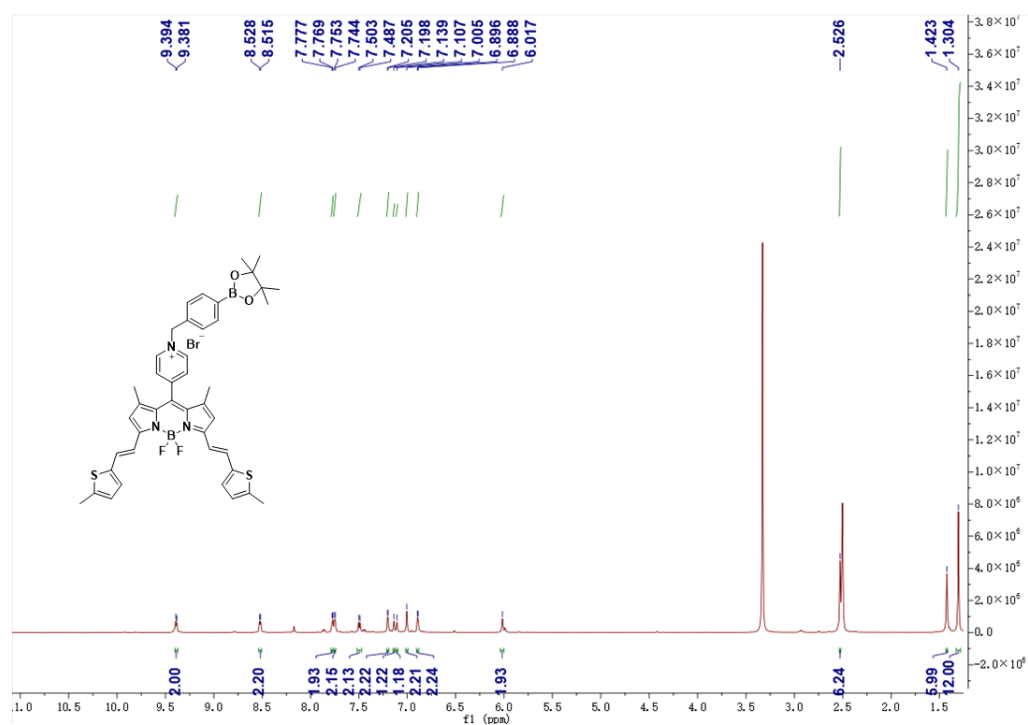


Figure S9. ¹H NMR of BDP-ENE-S-Py⁺.

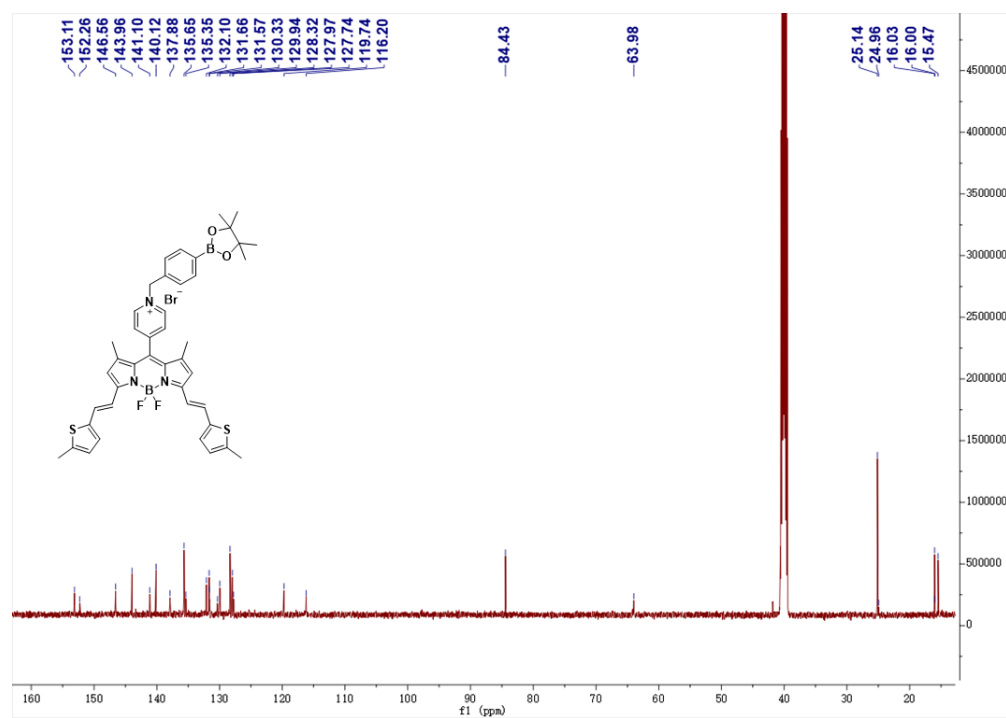


Figure S10. ¹³C NMR of BDP-ENE-S-Py⁺.