

Supporting Information

Ratiometric Polymer Probe for Detection of Peroxynitrite and the Application for Live-Cell Imaging

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1. Absorption Spectral Response of the Probe PB-PVA

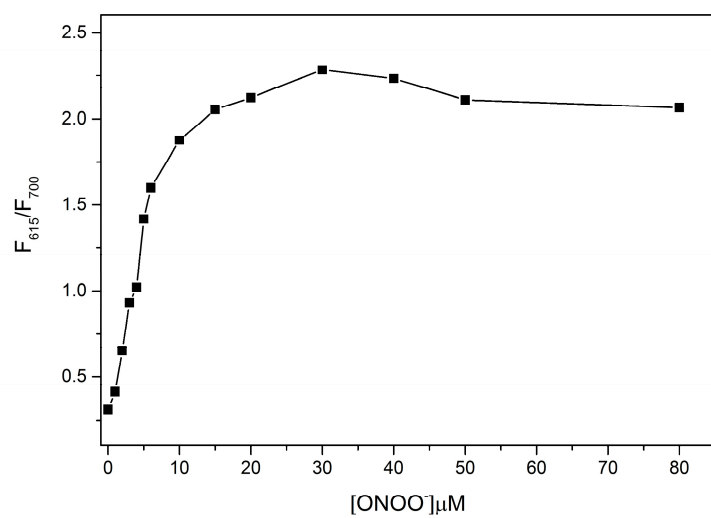


Figure S1. Probe fluorescence response to a wide range of concentration of ONOO⁻ from 0 to 80 μM.

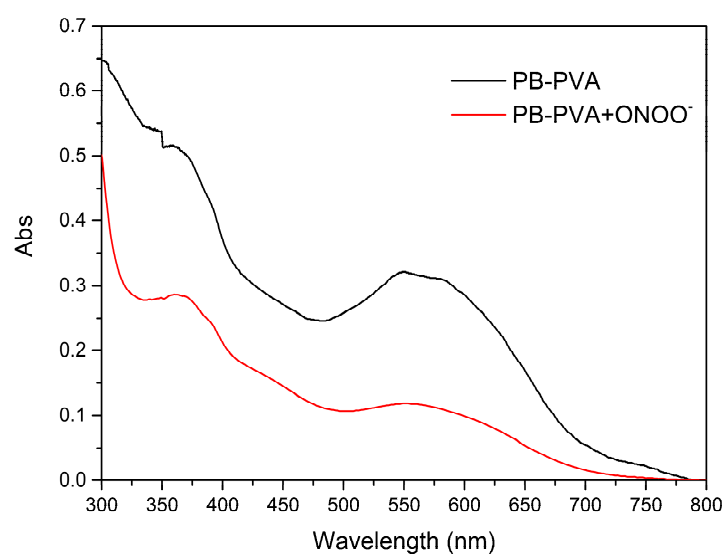


Figure S2. The absorption spectrum of the probe before and after the addition of ONOO⁻ (10 μM) in DMSO.

2. Characterization of intermediates and the probe PB-PVA

Compound 1 and 2 were characterized by ^1H NMR (Figures S3–S4).

EP was characterized by ^1H NMR, ^{13}C NMR, and MS (Figure S5A-C).

P-PVA was characterized by ^1H NMR (Figure S6).

PB-PVA was characterized by ^1H NMR (Figure S7).

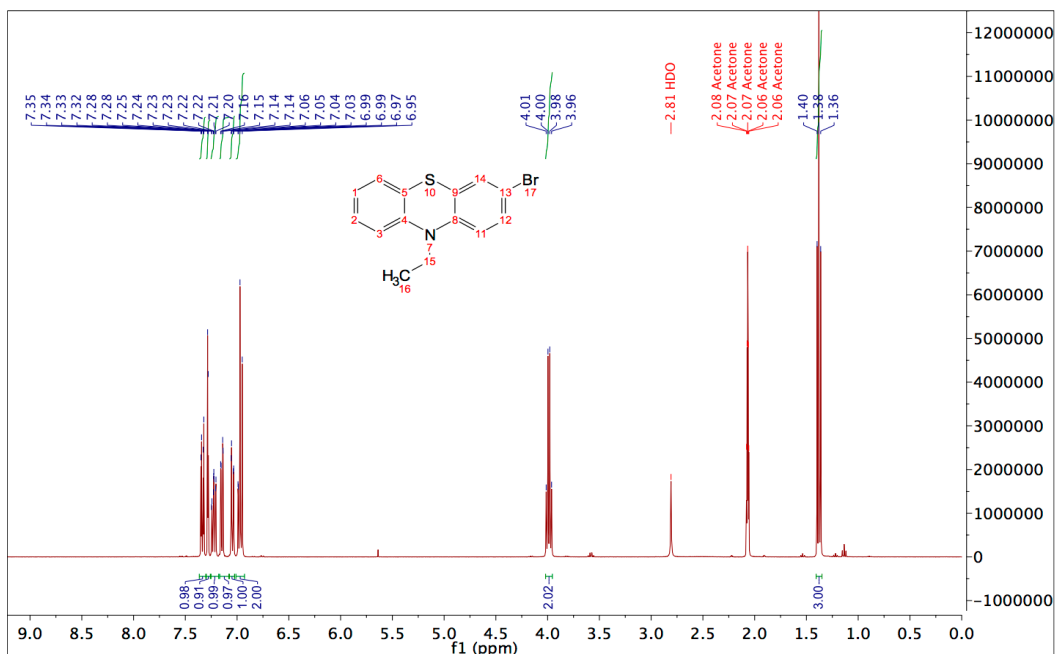


Figure S3. ^1H NMR of Compound 1.

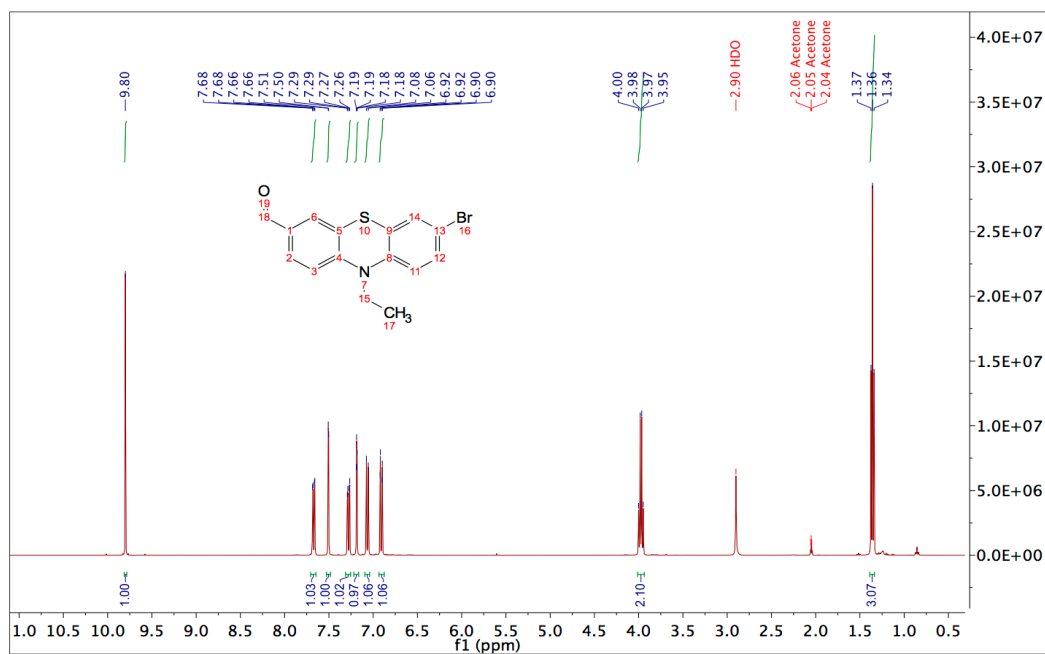


Figure S4. ^1H NMR of Compound 2.

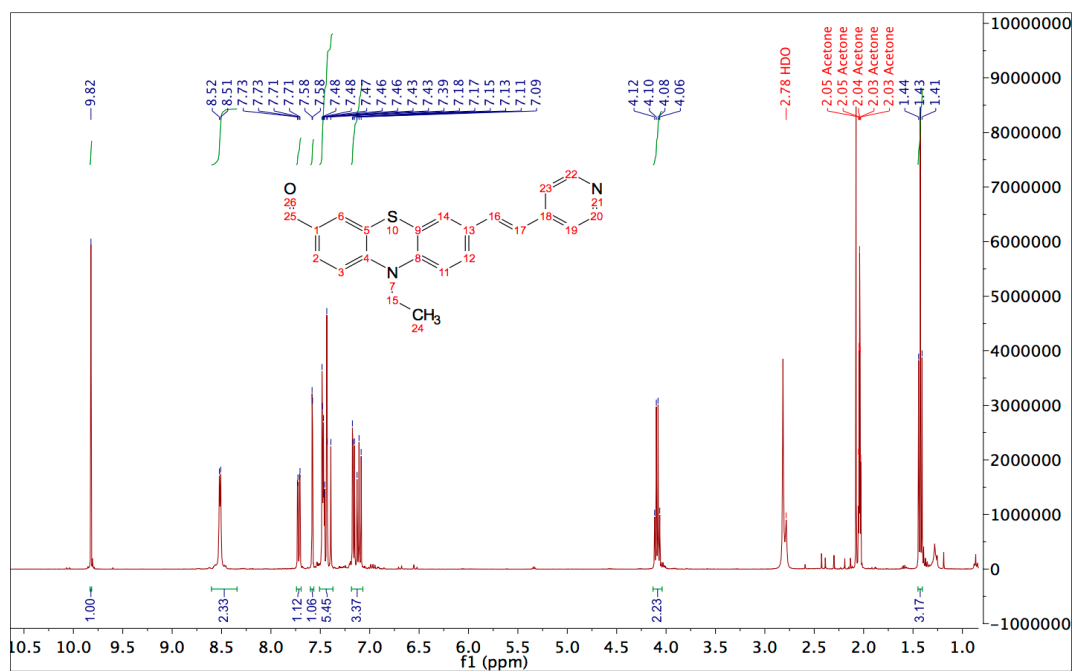


Figure S5A. ¹H NMR of EP.

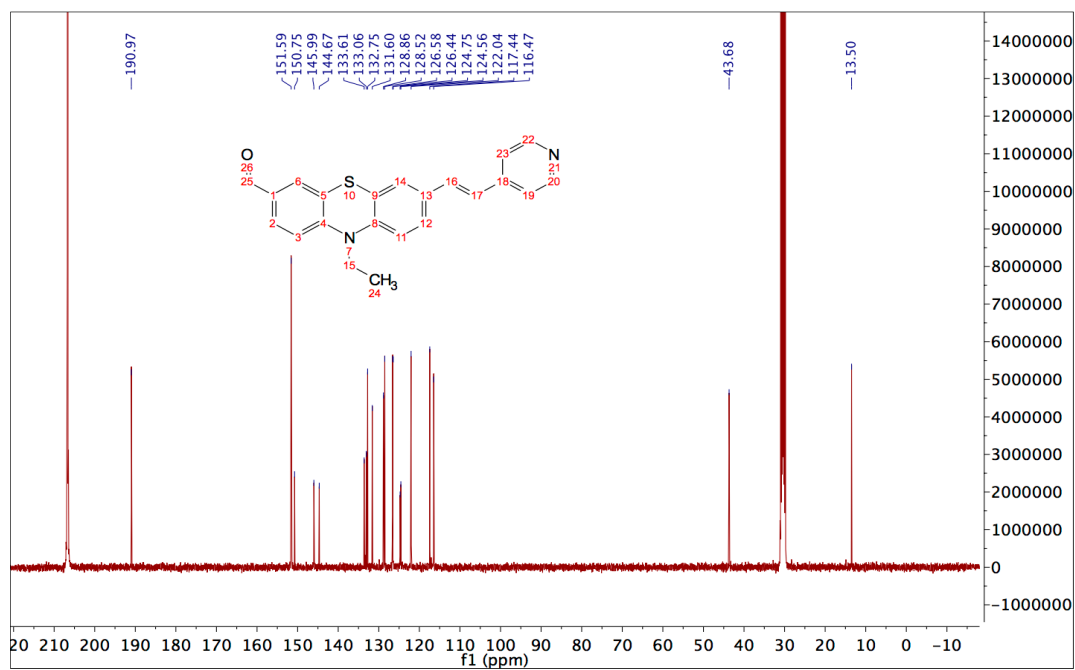


Figure S5B. ¹³C NMR of EP.

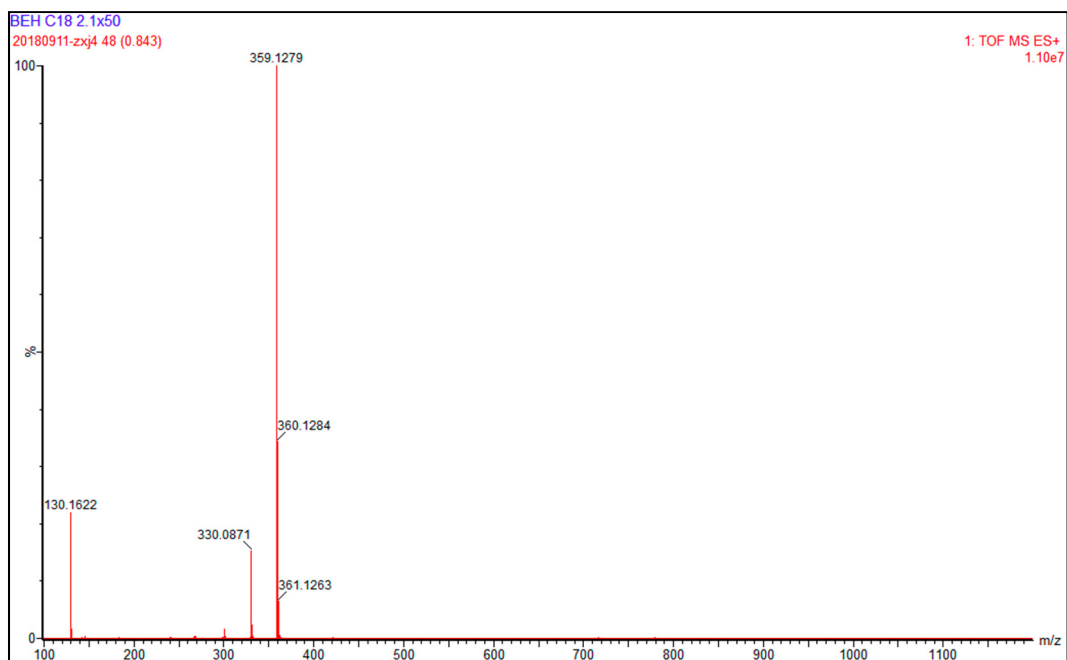


Figure S5C. Q-TOF MS of EP. The molecular weight of EP is 358.46.

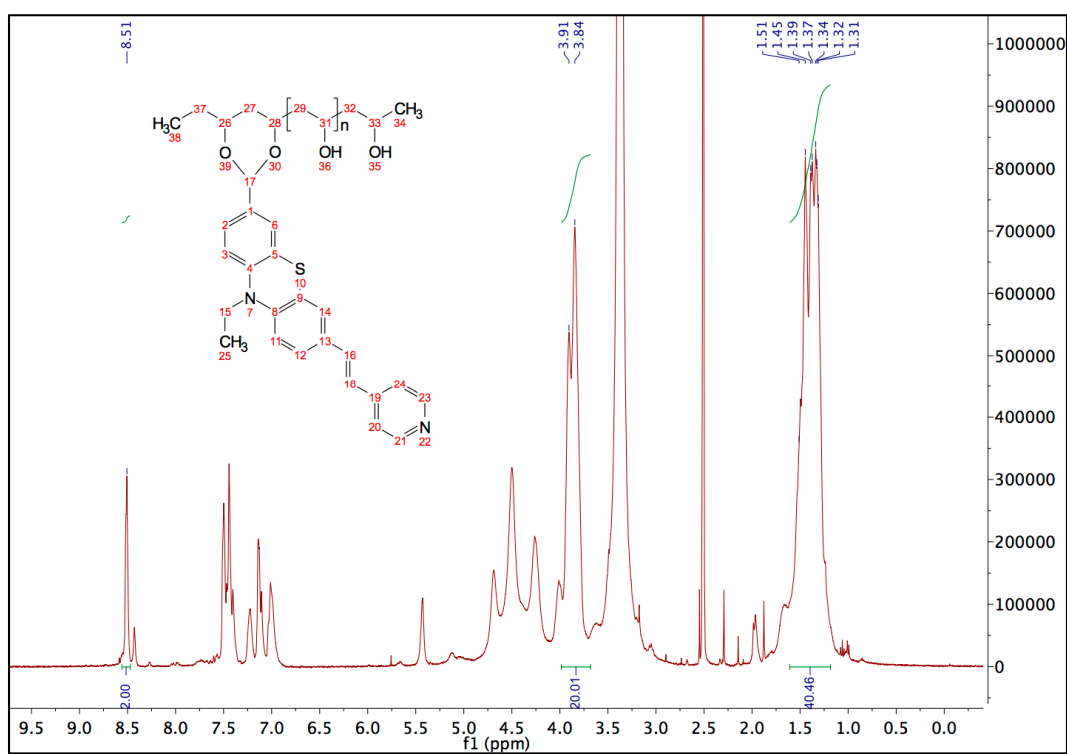


Figure S6. ^1H NMR of P-PVA. The ratio of EP grafted to the corresponding monomer is 1:10.

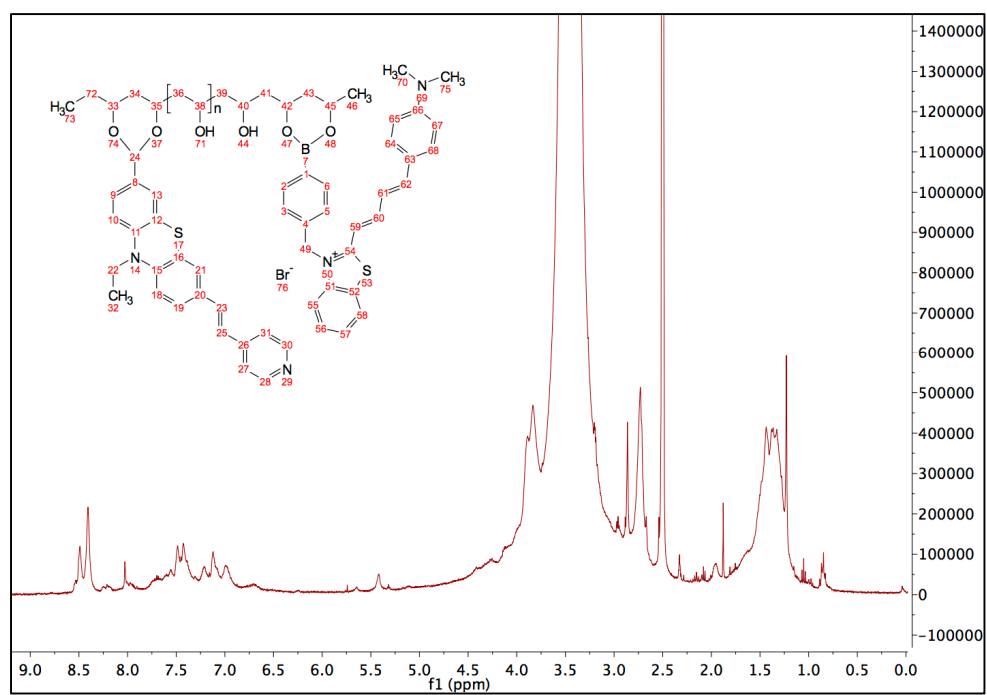


Figure S7. ^1H NMR of PB-PVA.