

Supplementary information for:

A Ratiometric Fluorescence Probe for Imaging of Sulfur Dioxide Derivatives in Mitochondria of Living Cells

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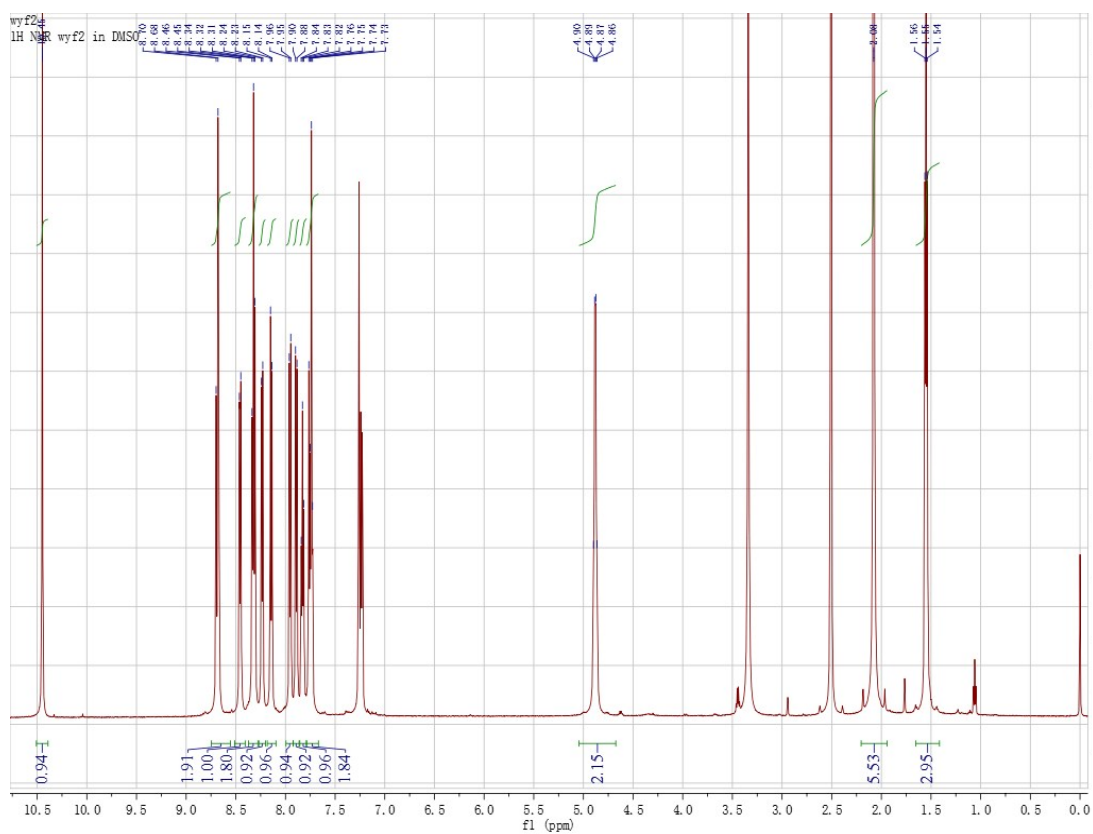


Figure S1. ¹H NMR spectral of probe NBD-Id.

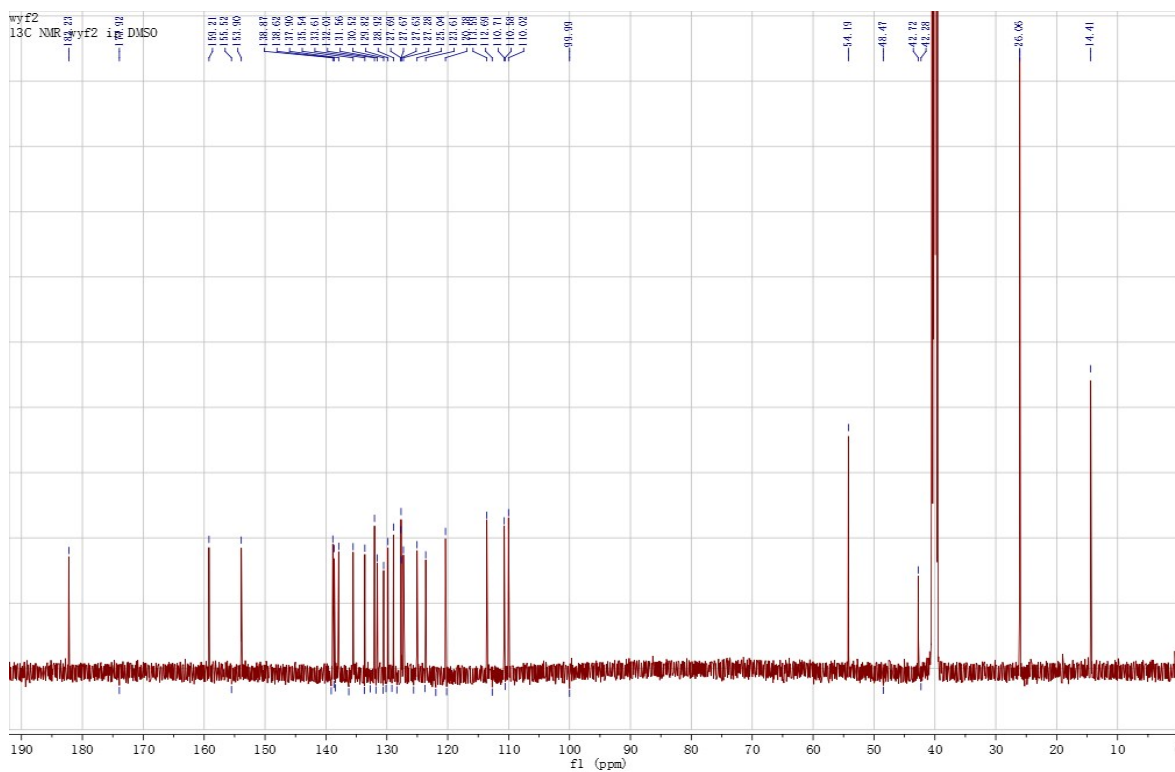


Figure S2. ¹³C NMR spectral of probe NBD-Id

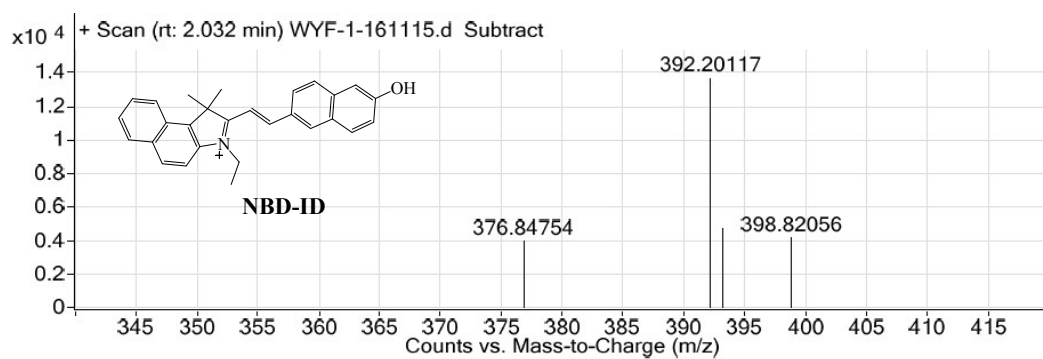


Figure S3. ESI-HRMS spectra of **NBD-Id**.

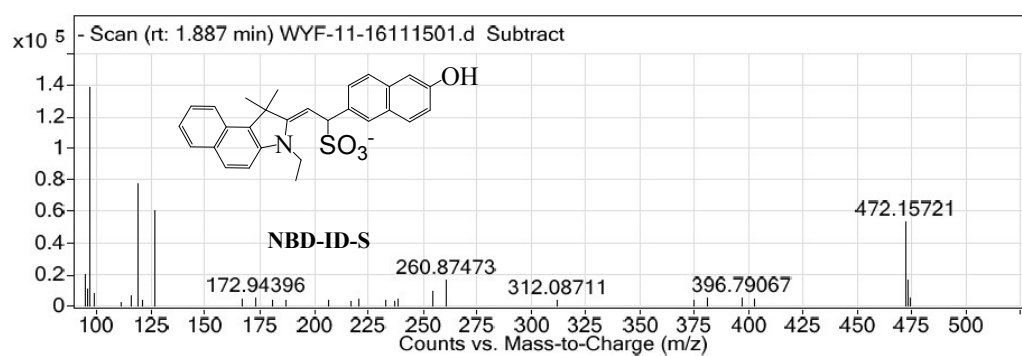


Figure S4. ESI-HRMS spectra of the reaction solution of HSO_3^- and **NBD-Id**.

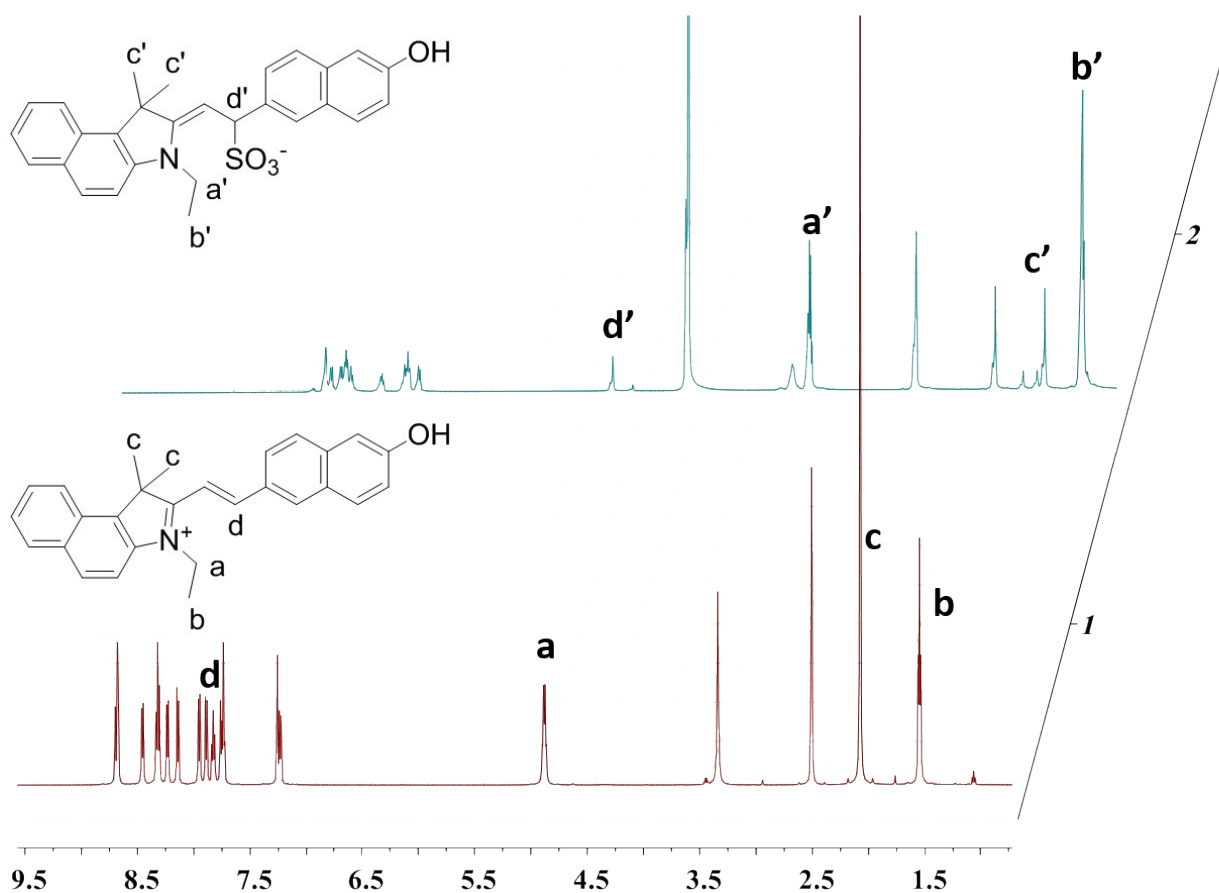


Figure S5. Changes in ^1H NMR spectral of NBD-Id in the absence and presence of NaHSO_3 in $\text{DMSO-D}_6/\text{D}_2\text{O} = 1:1$ (v/v).

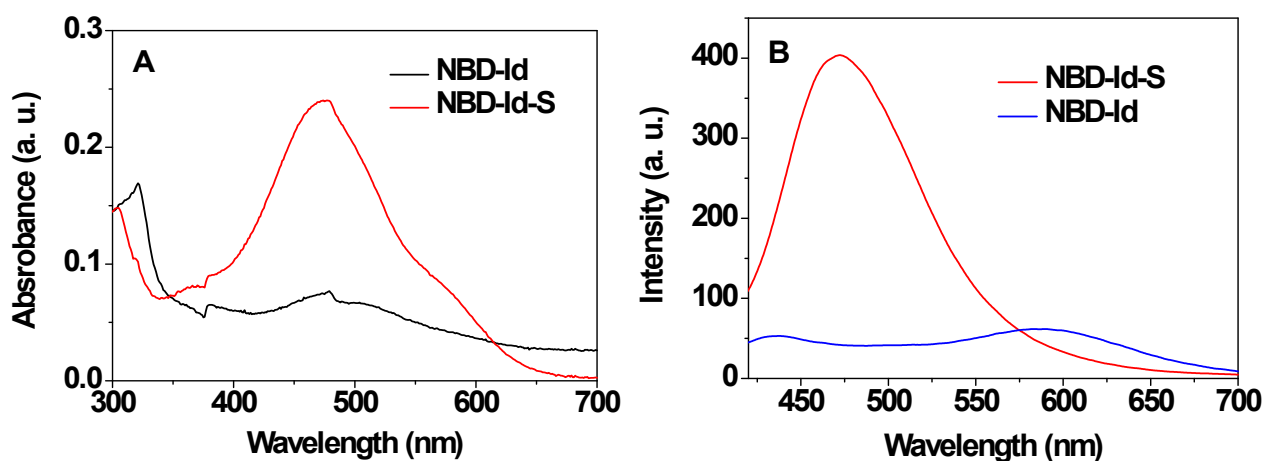


Figure S6. Absorption (A) and fluorescence (B) spectra of NBD-Id and NBD-Id-S.

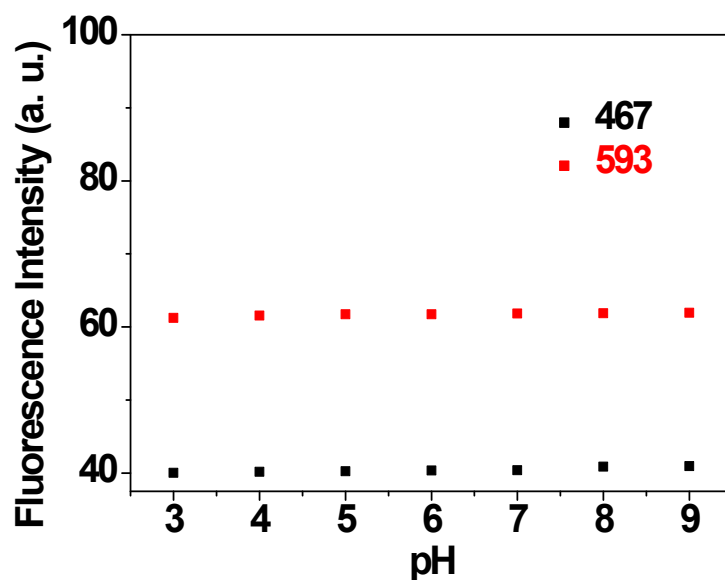


Figure S7. Fluorescence intensity of **NBD-Id** (10 μM) at $\lambda_{\text{em}} = 467 \text{ nm}$ (■), and $\lambda_{\text{em}} = 593 \text{ nm}$ (■) in PBS buffer with different pH level.

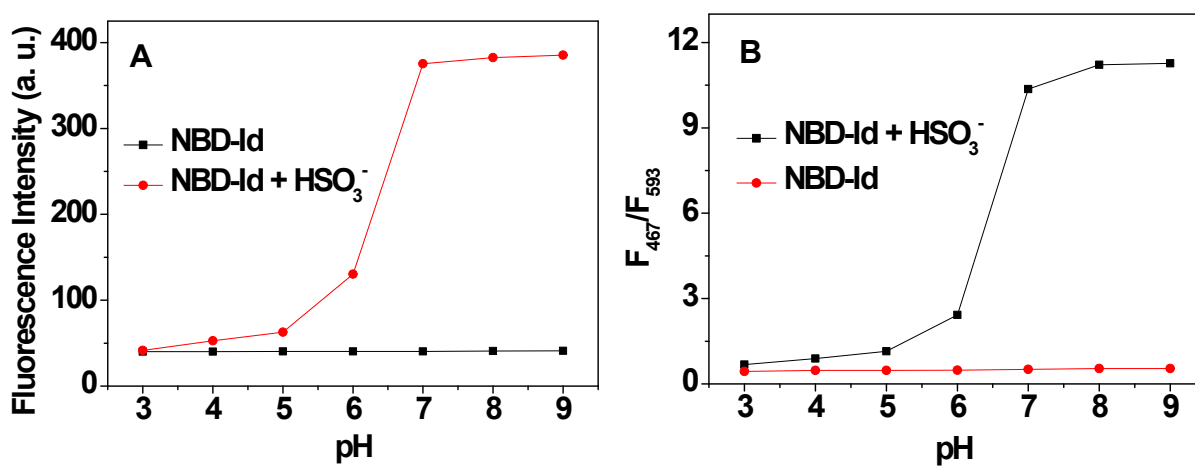


Figure S8. Effects of pH on the fluorescence response of **NBD-Id** (10 μM) towards HSO_3^- (5.0 equiv.) at $\lambda_{\text{em}} = 467 \text{ nm}$ (A), and F_{467}/F_{593} (B) in PBS buffer.