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Supporting information for

Construction of a novel ratiometric near infrared fluorescent probe for SO_2 derivatives and its application for biological imaging

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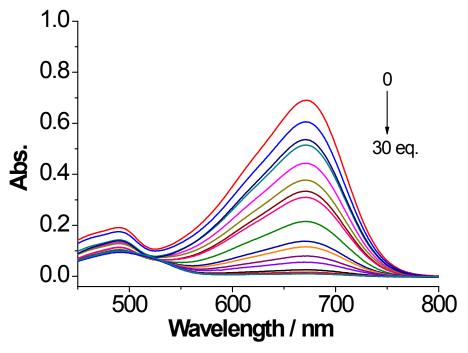


Fig. S1. The absorption spectra change of **1-SO₂** titrated with SO_3^{2-} . 10 μ M of **1-SO₂** interacted with 0 to 30 eq. of SO_3^{2-} in (PBS : DMSO = 8 : 2) buffer in 1 cm cell.

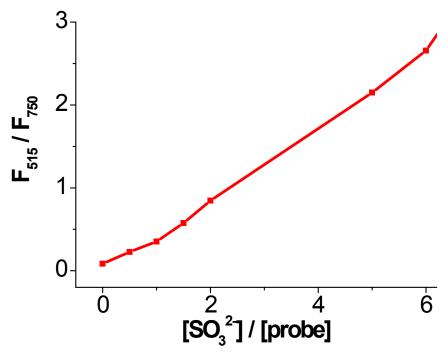


Fig. S2. The ratiometric fluorescence change when the SO_3^{2-} to **1-SO₂** ratio is 0 to 6, 10 μ M of **1-SO₂** was used. Excitation by 430 nm and 680 nm; emission monitored at 515 nm and 750 nm respectively.

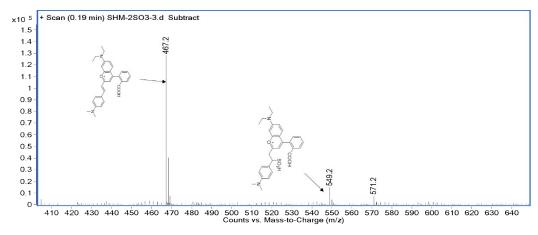


Fig. S3. High resolution mass spectrum (ESI) of the reaction mixture of the probe 1- SO_2 reacted with SO_3^{2-} .

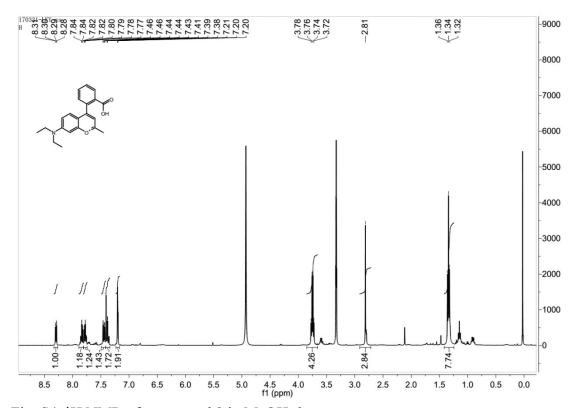


Fig. S4. ¹H NMR of compound 2 in MeOH-d₄.

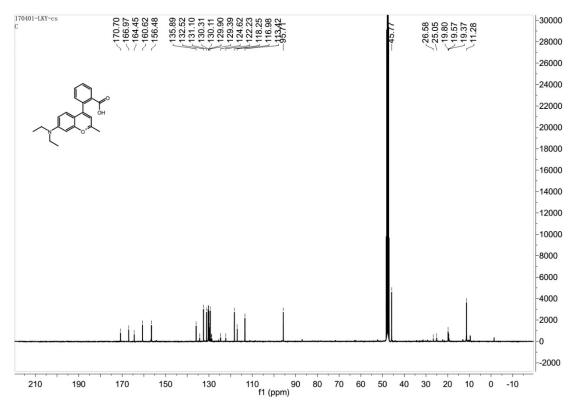


Fig. S5. ¹³C NMR of compound **2** in MeOH-d₄.

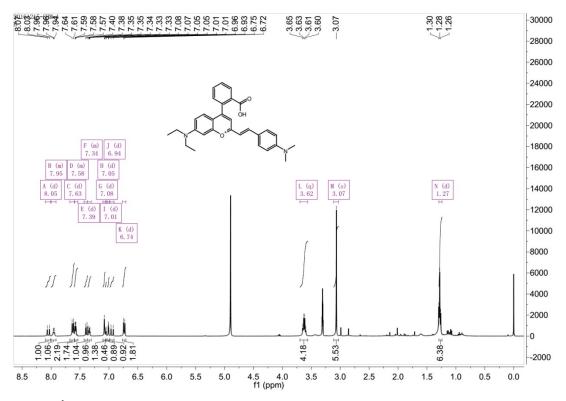


Fig. S6. ¹H NMR of **1-SO₂** in MeOH-d₄.

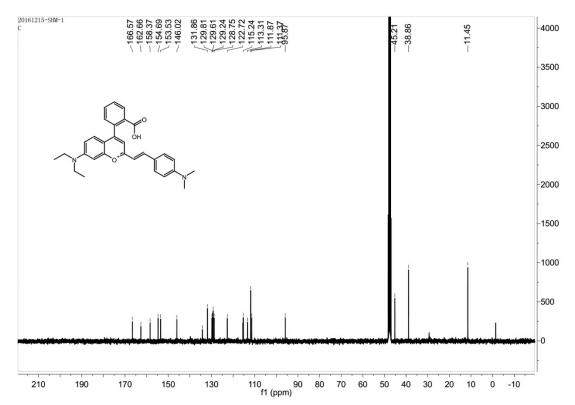


Fig. S7. 13 C NMR of **1-SO**₂ in MeOH-d₄.

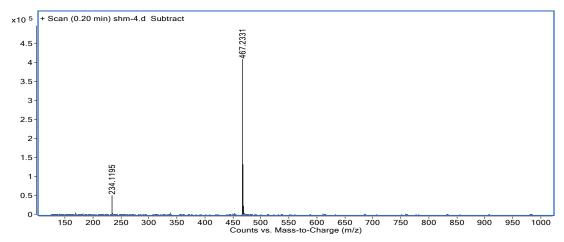


Fig. S8. HR-MS of **1-SO₂**.