

Supporting information

A highly sensitive and selective turn-on fluorescent probe for sulfite and its application in biological imaging

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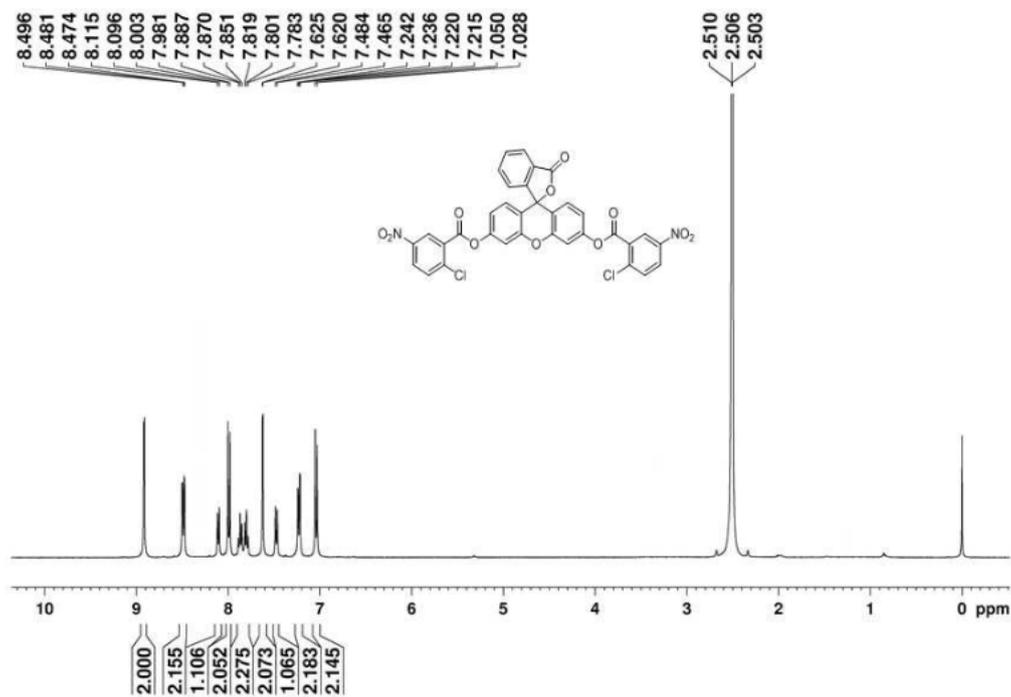


Figure S1. ¹H NMR chart of probe 1(DMSO-d₆, 400 MHz).

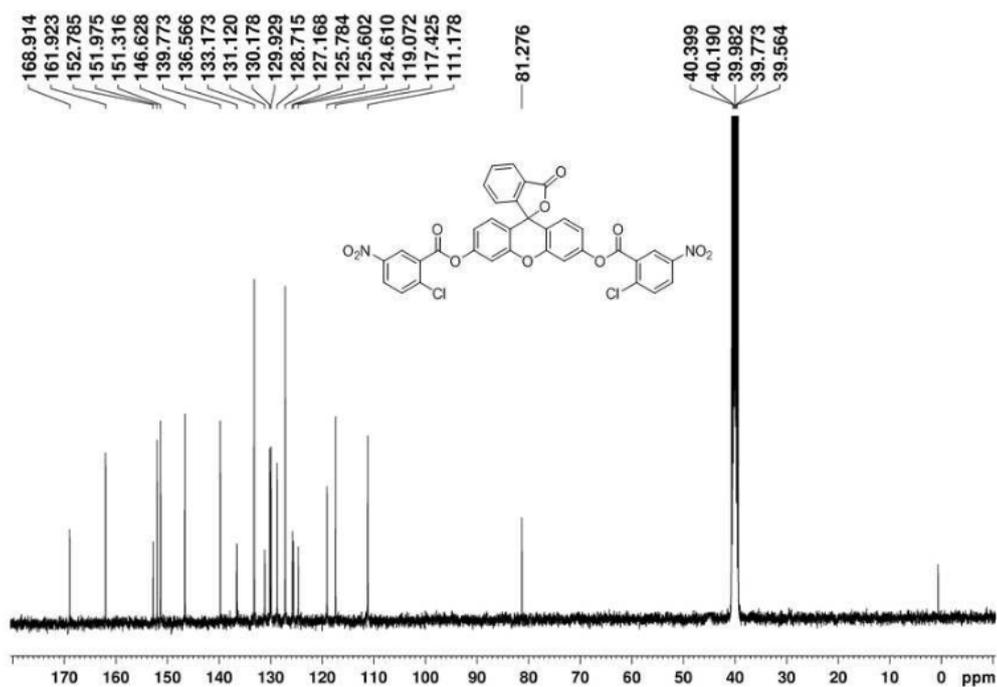


Figure S2. ¹³C NMR chart of probe 1(DMSO-d₆, 100 MHz)

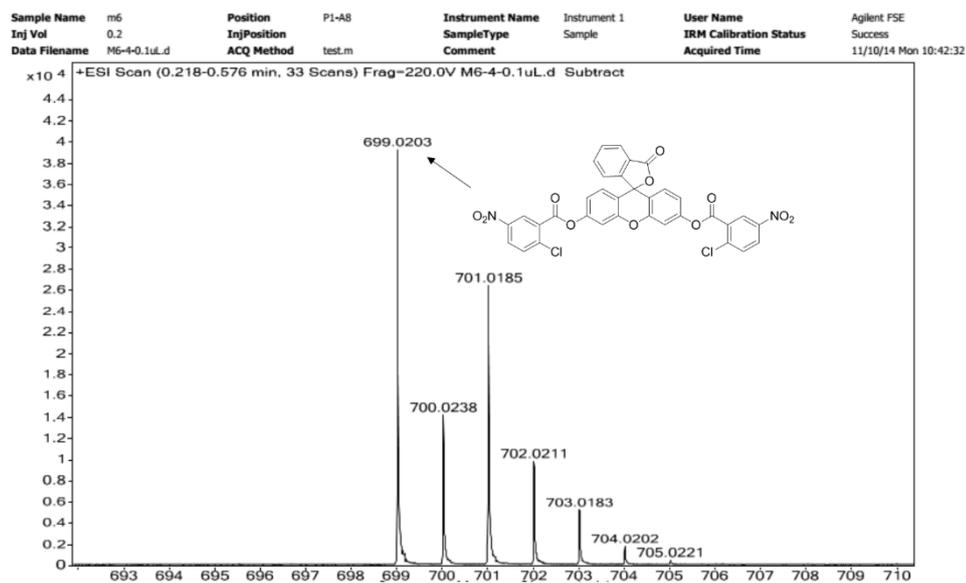


Figure S3. ESI-HRMS spectrum of probe 1.

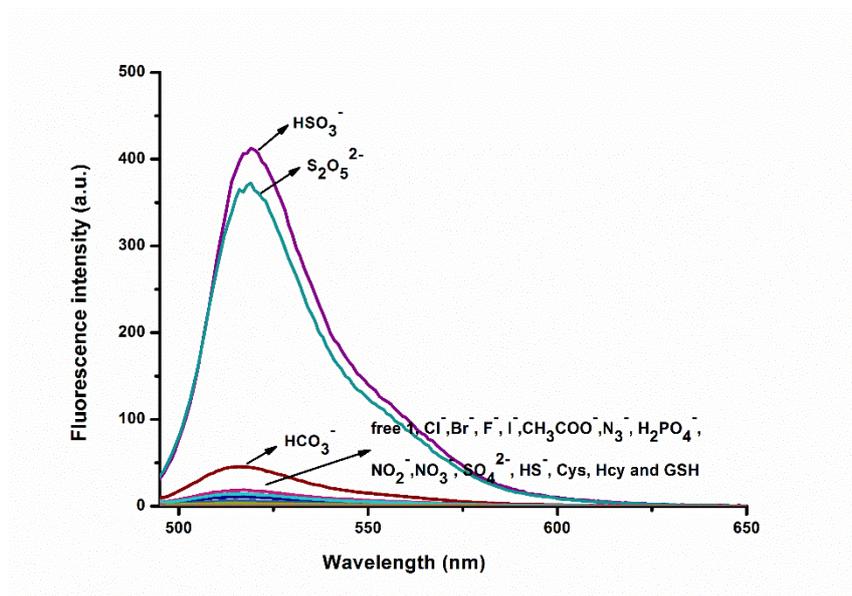


Figure S4. Fluorescence spectra ($\lambda_{\text{ex}} = 490$ nm, slit widths 1.0 nm) of **1** (10 μ M) with the presence of 10 equiv. of various species in MeOH/water solution (7:3 v/v, 1 mM Tris-HCl, pH 7.0).

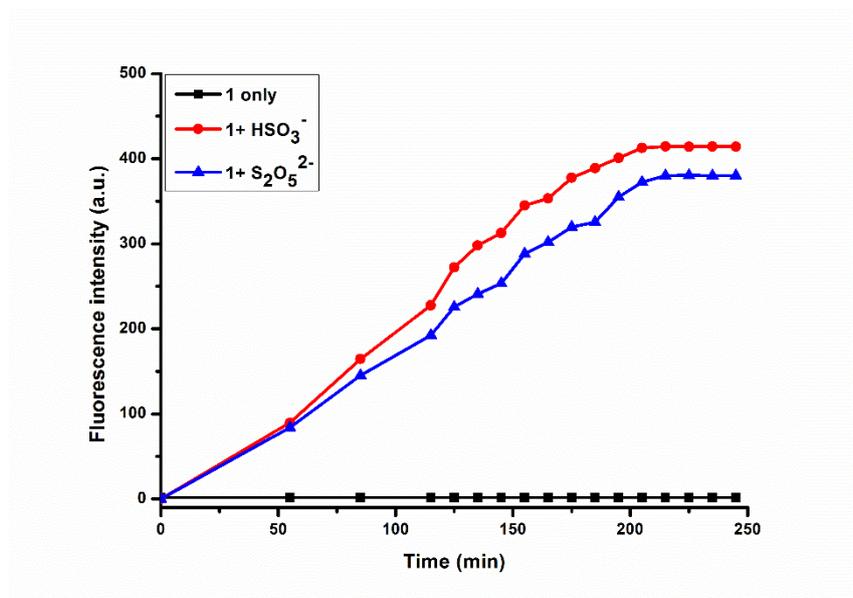


Figure S5. Time-dependent fluorescence intensity at 520 nm of probe **1** (10 μM) in the absence and presence of 10 eq. HSO_3^- , $\text{S}_2\text{O}_5^{2-}$ in MeOH/water solution (7:3 v/v, 1 mM Tris-HCl, pH 7.0), $\lambda_{\text{ex}} = 490 \text{ nm}$ slits = 1.0 nm.

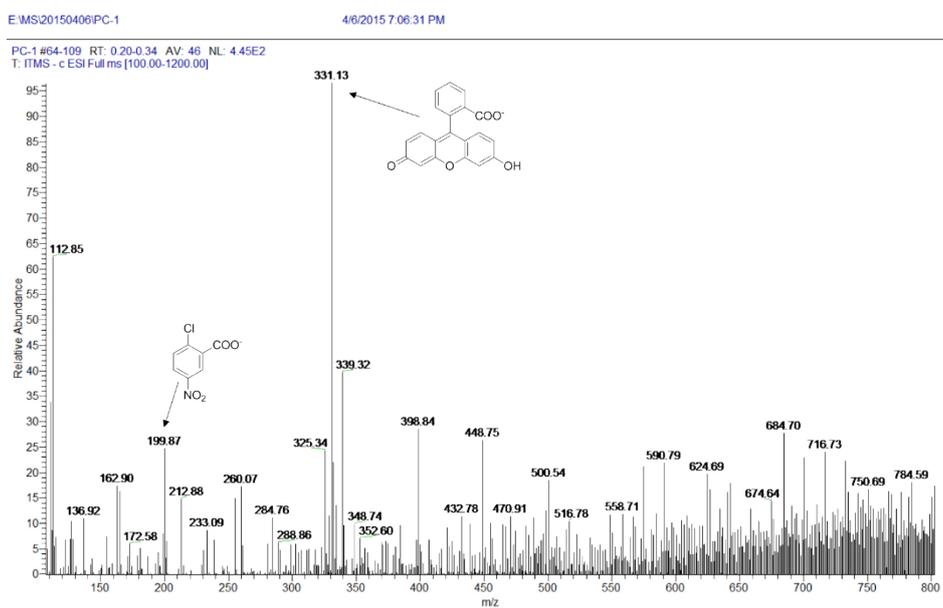


Figure S6. ESI-MS (negative) of probe **1** and SO_3^{2-} .