A highly sulfite-selective ratiometric fluorescent probe based on ESIPT

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2. The time-dependent fluorescence of probe 1 in acetonitrile-buffer solution (pH =7.4)

3. Fluorescence spectra of probe 1 in response to bisulfate ion

4. \textsuperscript{1}H NMR spectrum of probe 1

5. LC-MS spectrum of probe 1
Fig. S1. Fluorescence spectrum of probe 1 (λex = 310 nm, 10μM) in CH$_3$CN solution.
Fig. S2 The time-dependent fluorescence of probe 1 in HEPES buffered (pH 7.4, 10 mM) H2O-CH3CN (50%, V/V).
Fig. S3 Fluorescence spectra of probe 1 (10 μM) in response to bisulfate ion in PBS buffered (pH 4.8, 50 mM) H$_2$O-CH$_3$CN (50%, V/V).
**Fig. S4.** $^1$H NMR spectrum of 1 in CDCl$_3$

**Fig. S5.** LC-MS spectrum of 1 in positive ion mode