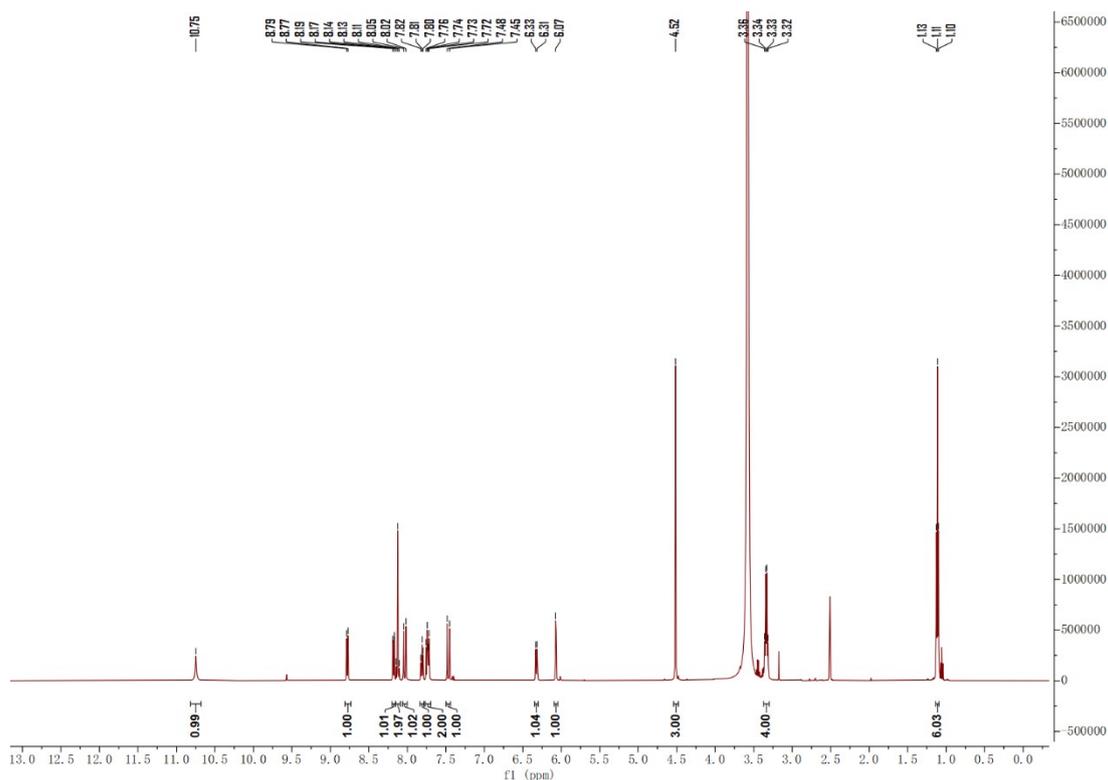


A novel fluorescent probe for hydrogen sulfide imaging in living inflammatory models

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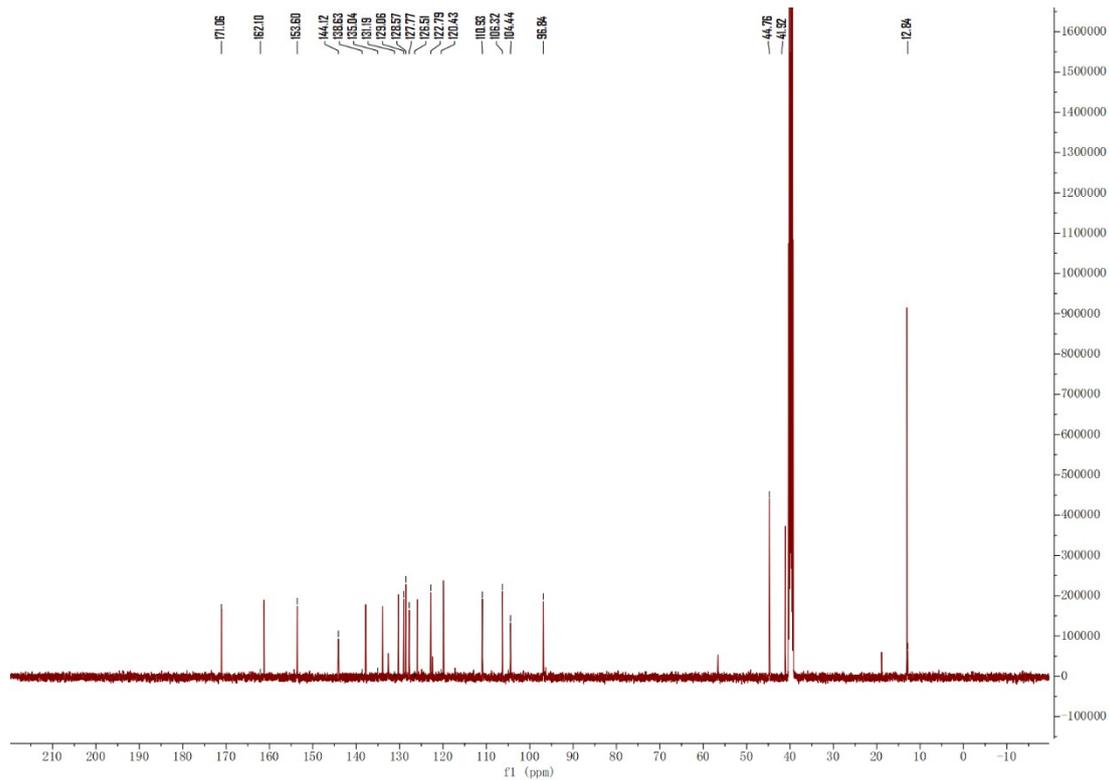


Fig. S1. ^1H NMR spectrum of compound compound **2** (500 MHz, $\text{DMSO-}d_6$).

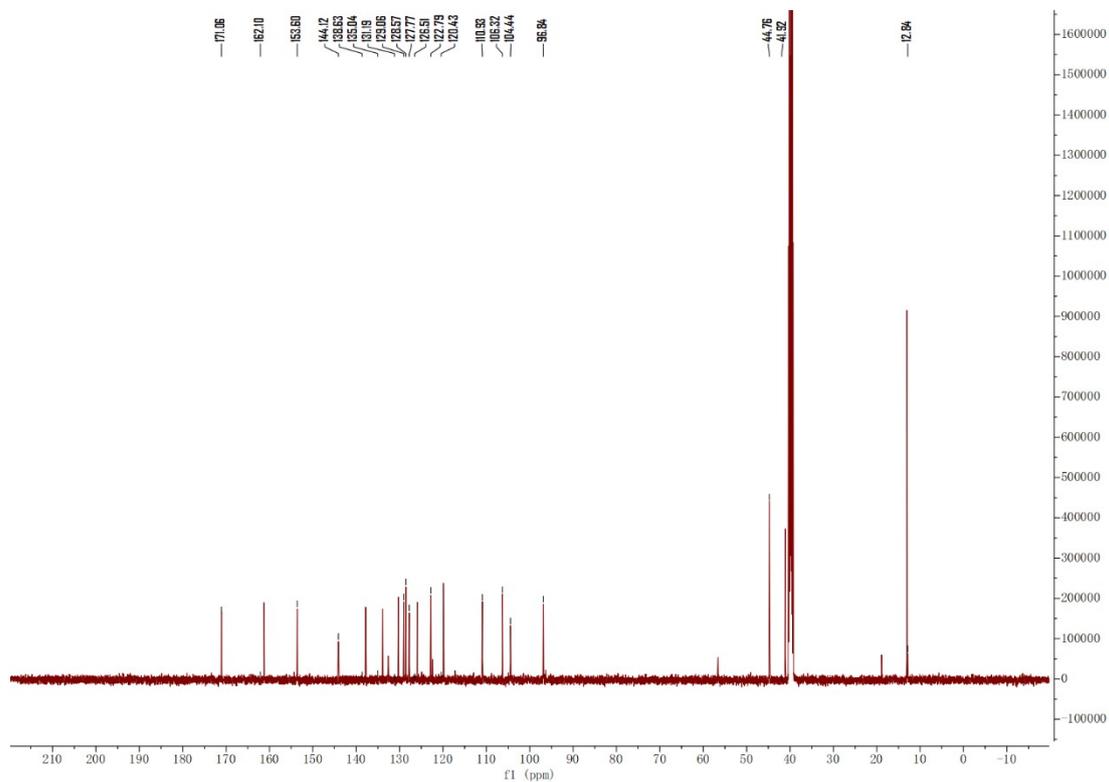


Fig. S2. ^{13}C NMR spectrum of compound compound **2** (126 MHz, $\text{DMSO-}d_6$).

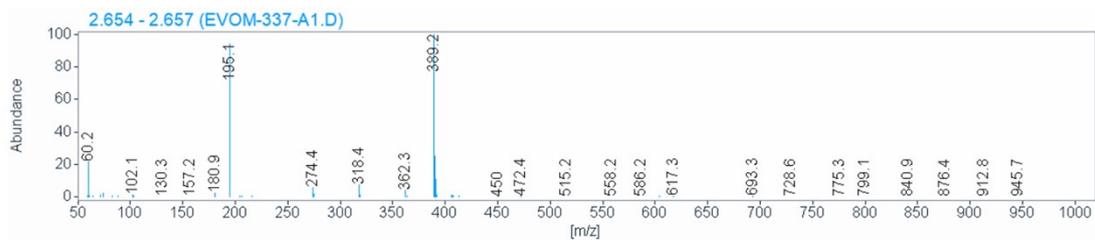


Fig. S3. MS of compound 2

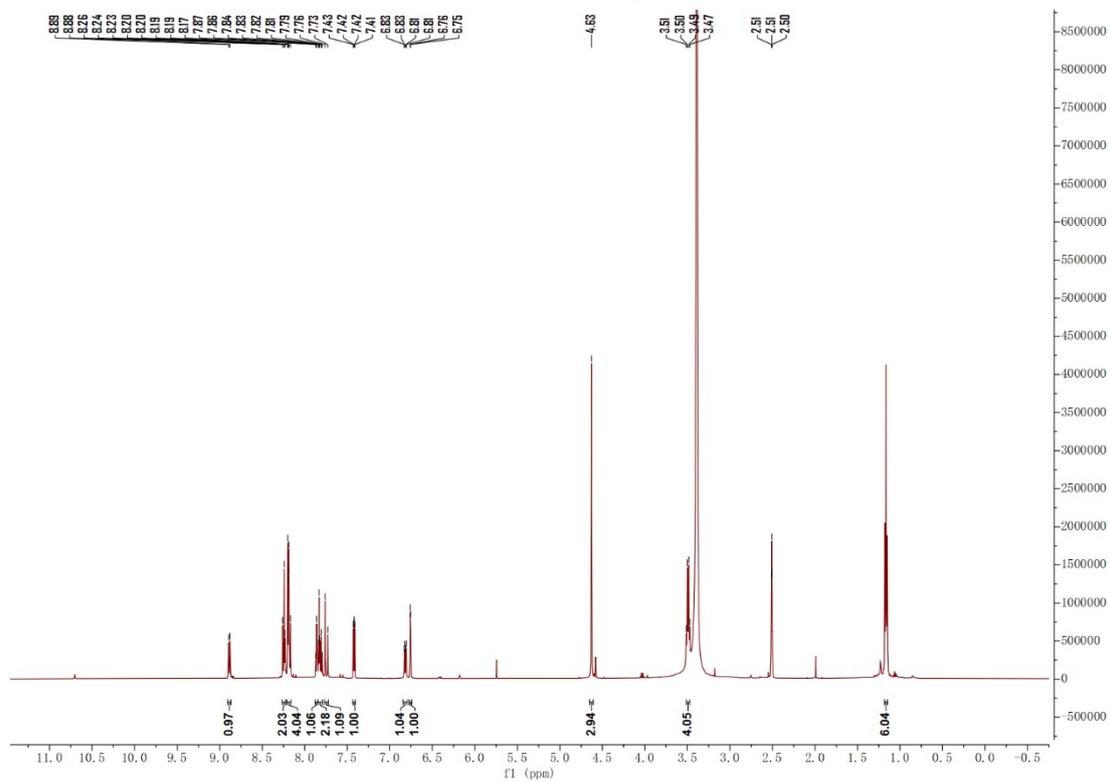


Fig. S4. ^1H NMR spectrum of compound **DHM-H₂S** (500 MHz, DMSO-*d*₆).

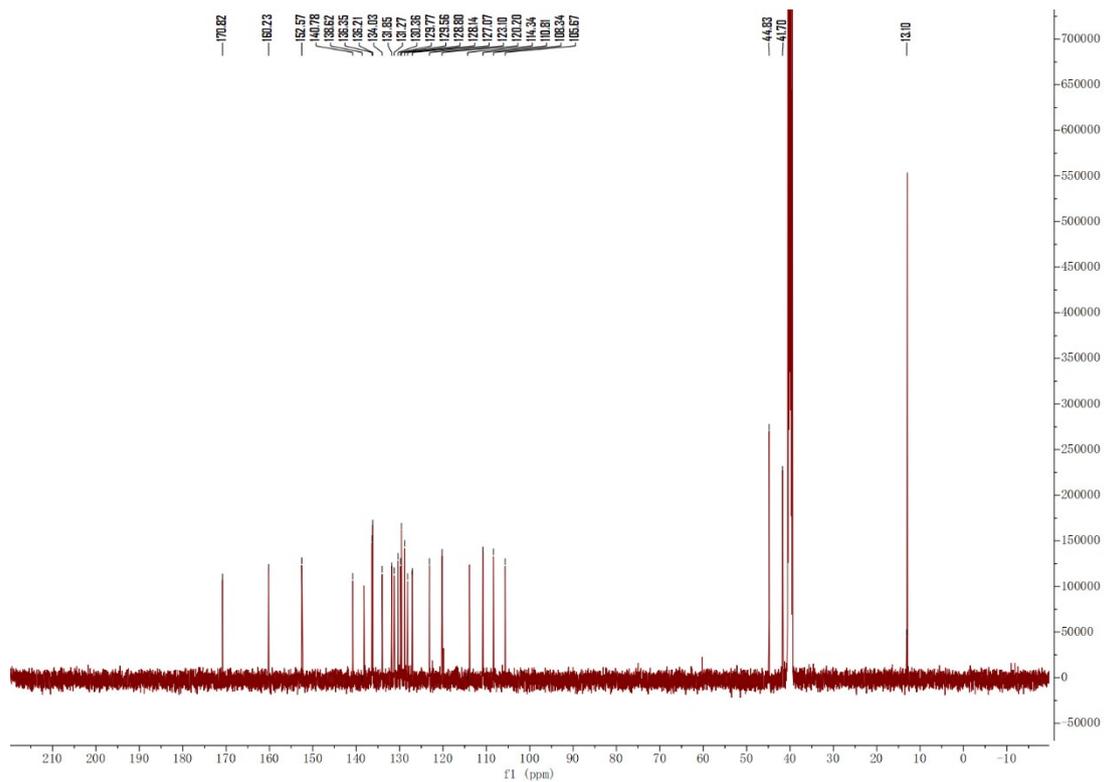


Fig. S5. ^{13}C NMR spectrum of compound **DHM-H₂S** (126 MHz, DMSO-*d*₆).

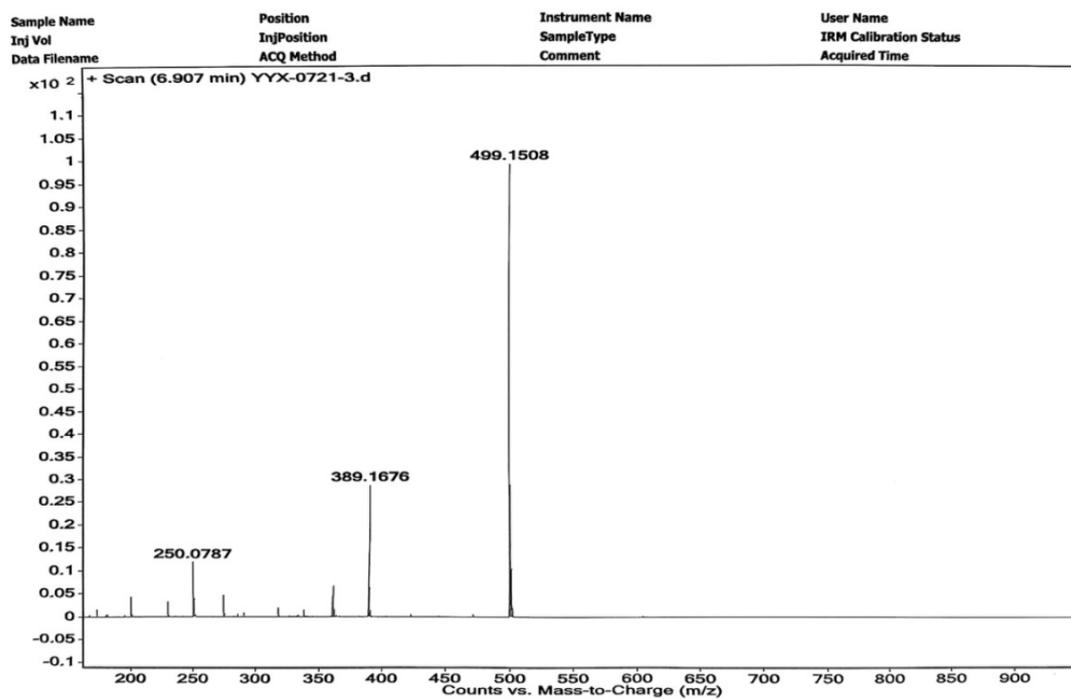


Fig. S6. TOF-MS of **DHM-H₂S**

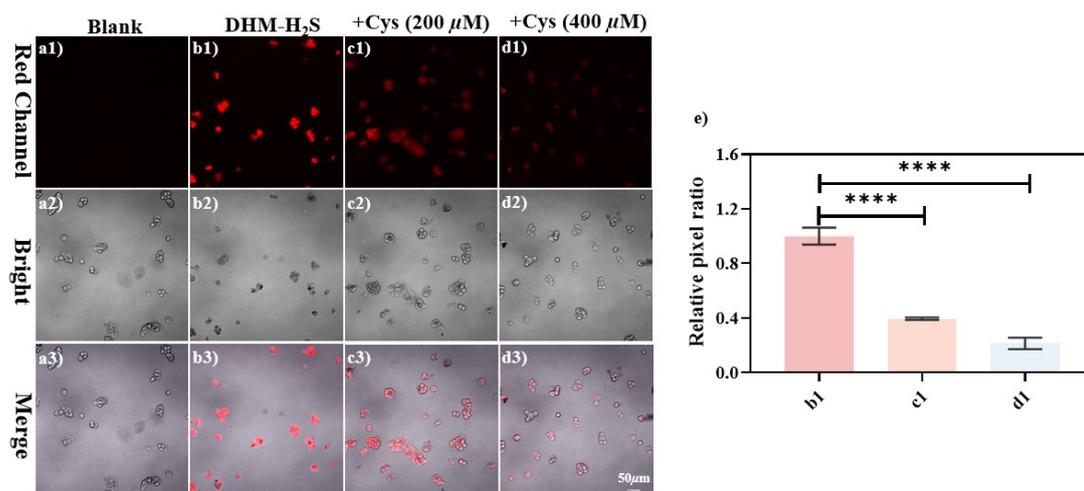


Fig. S7 Fluorescence images of endogenous H₂S in RAW 264.7 cells. (a1-a3) Only RAW 264.7 cells were imaged. (b1-b3) RAW 264.7 cells were imaged after the addition of **DHM-H₂S** (10 μM) for 1 h. (c1-c3) RAW 264.7 cells were pretreated with Cys (200 μM) for 1 h, and then incubated with **DHM-H₂S** (10 μM) for another 1 h. (d1-d3) RAW 264.7 cells were pretreated with Cys (400 μM) for 1 h, and then incubated with **DHM-H₂S** (10 μM) for another 1 h. (e) The relative pixel ratio of **DHM-H₂S** in b1, c1, d1. $\lambda_{\text{ex}} = 488 \text{ nm}$, $\lambda_{\text{em}} = 560\text{--}650 \text{ nm}$. Data are presented as mean \pm SD ($n = 3$). **** $P < 0.0001$. Scale bar, 50 μm.