

Supporting information

A NIR rhodamine fluorescent chemodosimeter specific for Glutathione: Knoevenagel Condensation, detection of intracellular Glutathione and living cell imaging

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Figure S1. ^1H NMR spectra of Compound M_2 .

Figure S2. ^{13}C NMR spectra of Compound M_2 .

Figure S3. Mass spectra of Compound M_2 .

Figure S4. ^1H NMR spectra of Compound M_3 .

Figure S5. ^{13}C NMR spectra of Compound M_3 .

Figure S6. ^1H NMR spectra of target molecule RhAN.

Figure S7. Mass spectra of RhAN.

Figure S8. The UV-vis spectra of RhAN ($10\ \mu\text{M}$) in EtOH/PBS buffer solution (V/V, 1:1, PH = 7.4) after the concentration of GSH (0-20 μM) is added.

Figure S9. The fluorescence intensity changes of RhAN ($10\ \mu\text{M}$) upon gradual addition of GSH (0-40 μM).

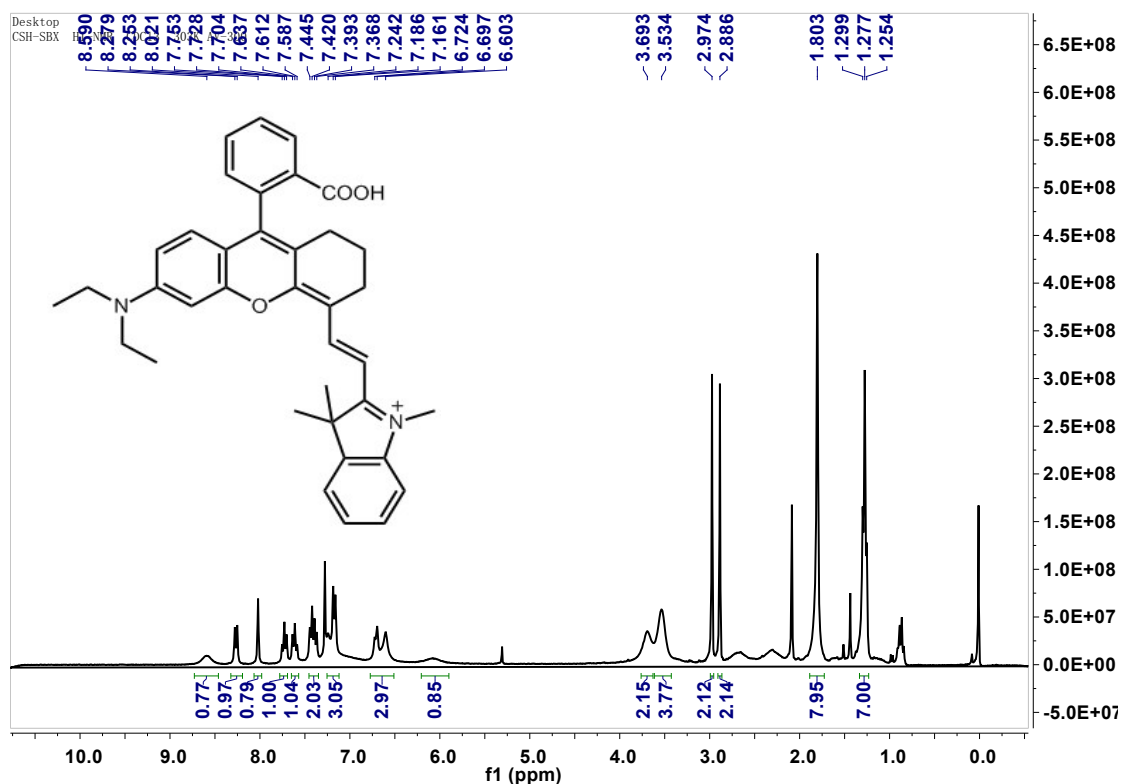


Figure S1. ¹H NMR spectra of Compound M₂ in CDCl₃.

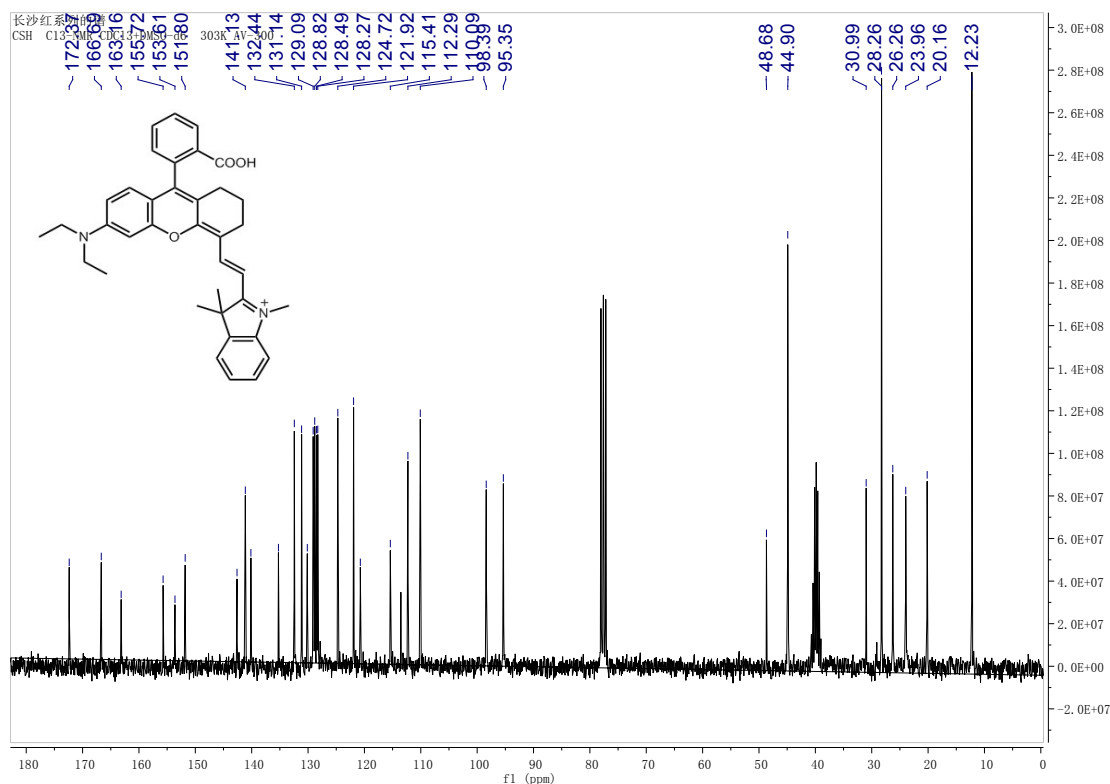


Figure S2. ¹³C NMR spectra of Compound M₂ in CDCl₃.

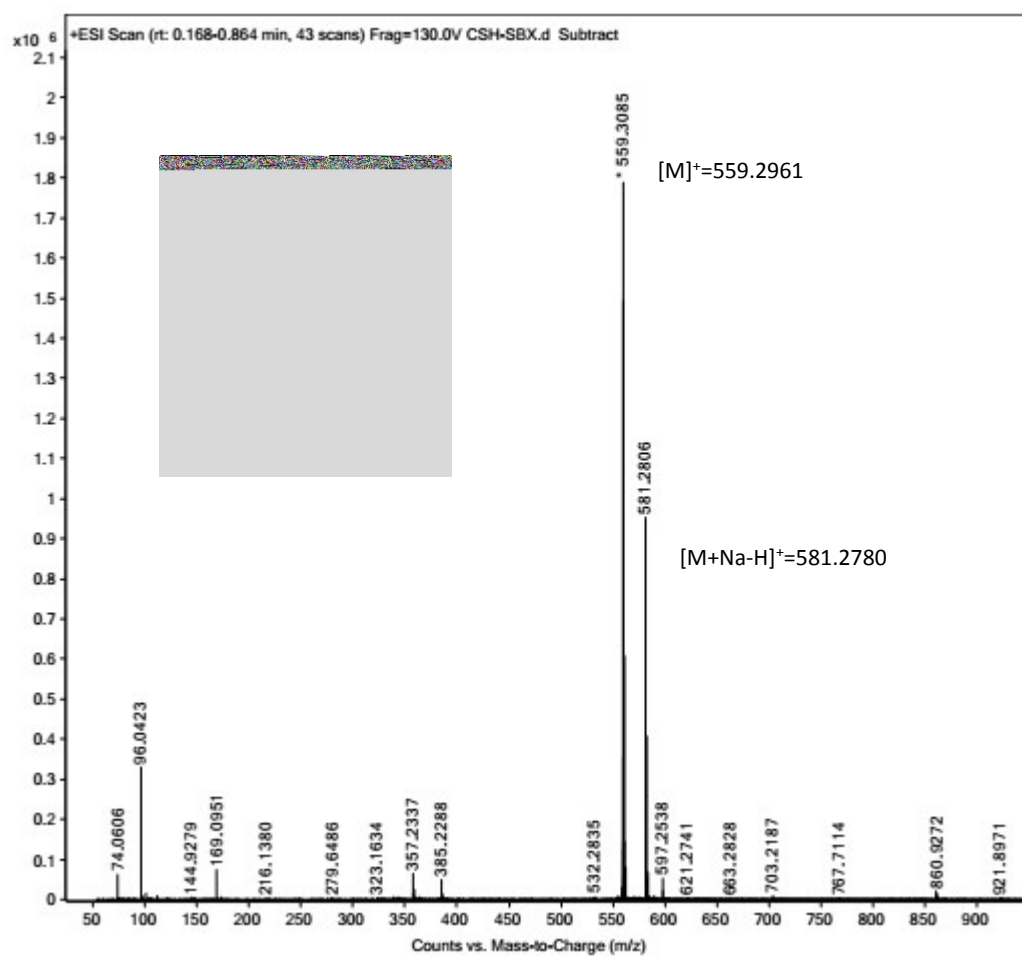


Figure S3. Mass spectra of Compound M_2 .

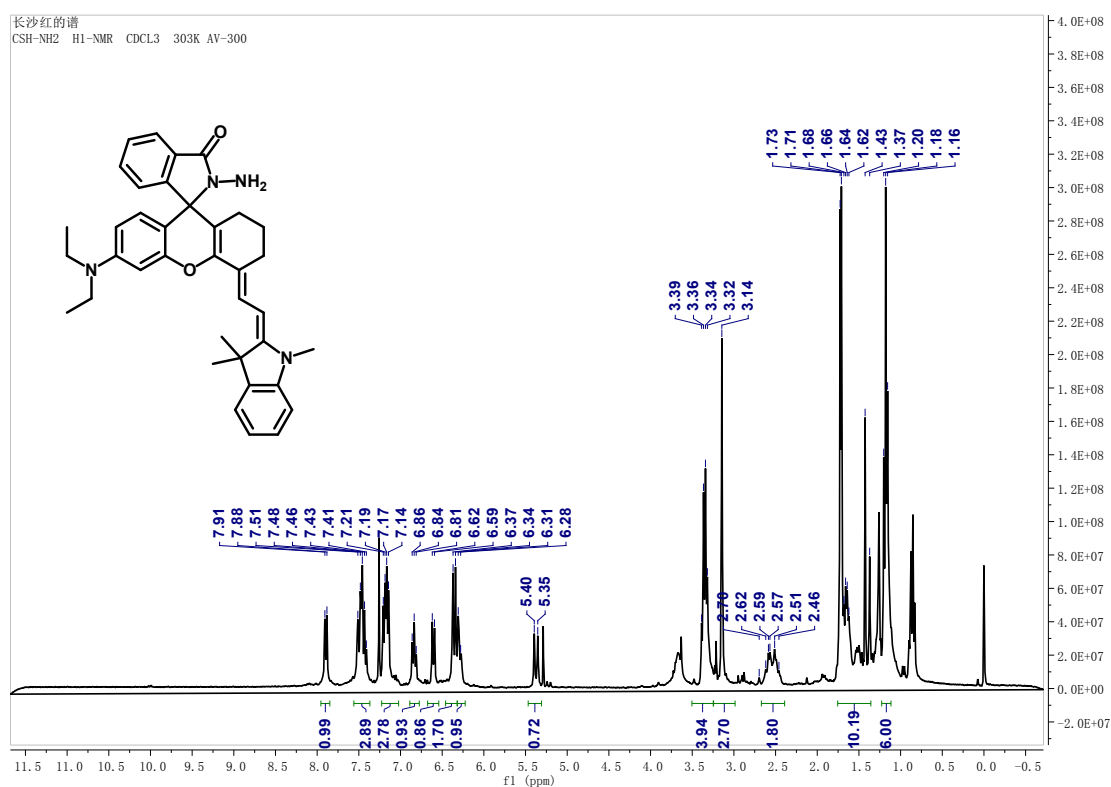


Figure S4. 1H NMR spectra of Compound M_3 in $CDCl_3$.

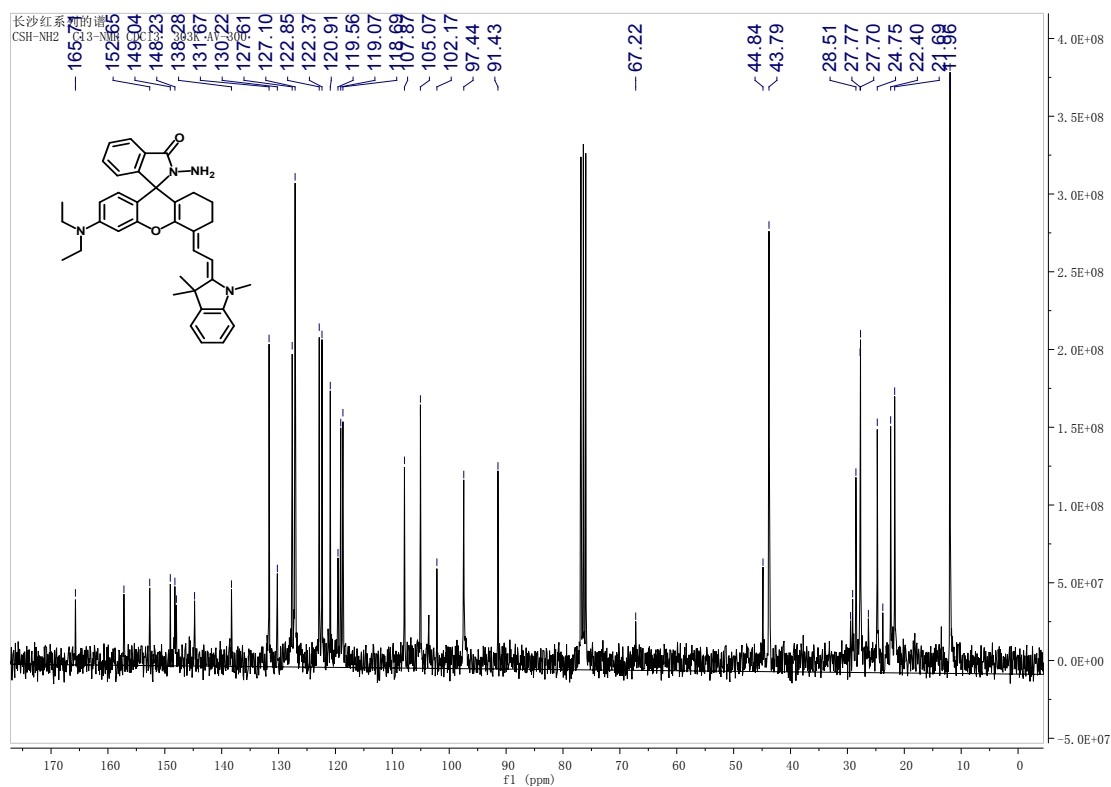


Figure S5. ¹³C NMR spectra of Compound M₃ in CDCl₃.

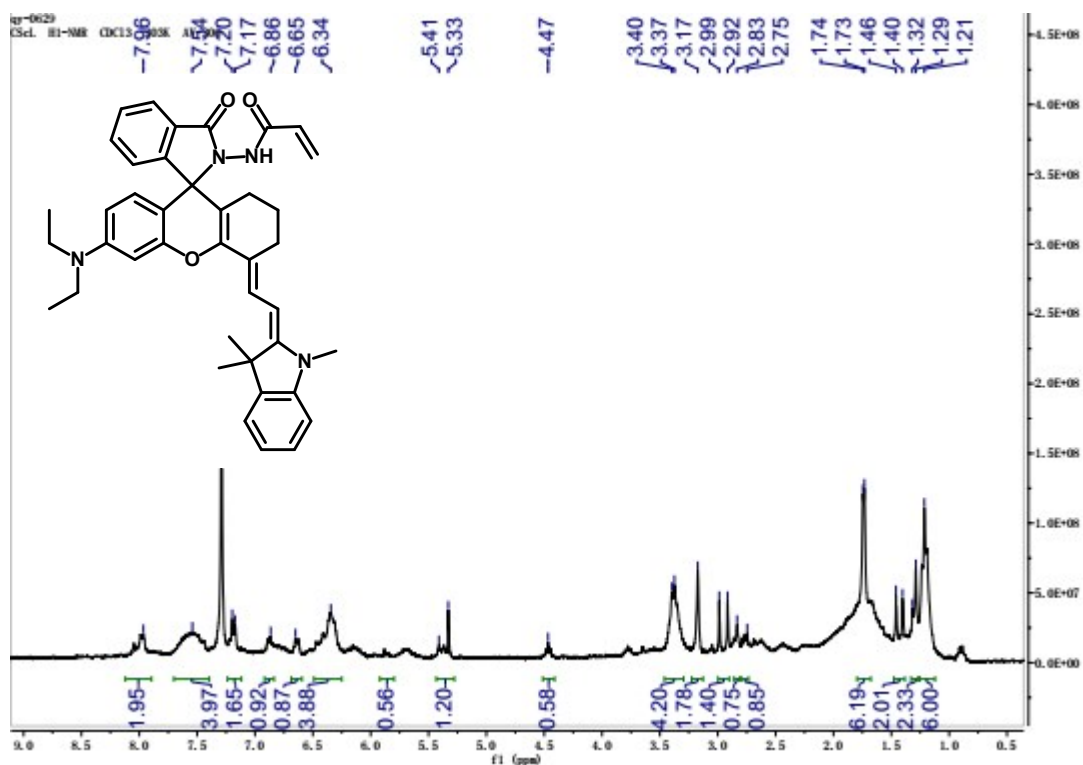


Figure S6. ¹H NMR spectra of target molecule RhAN in CDCl₃.

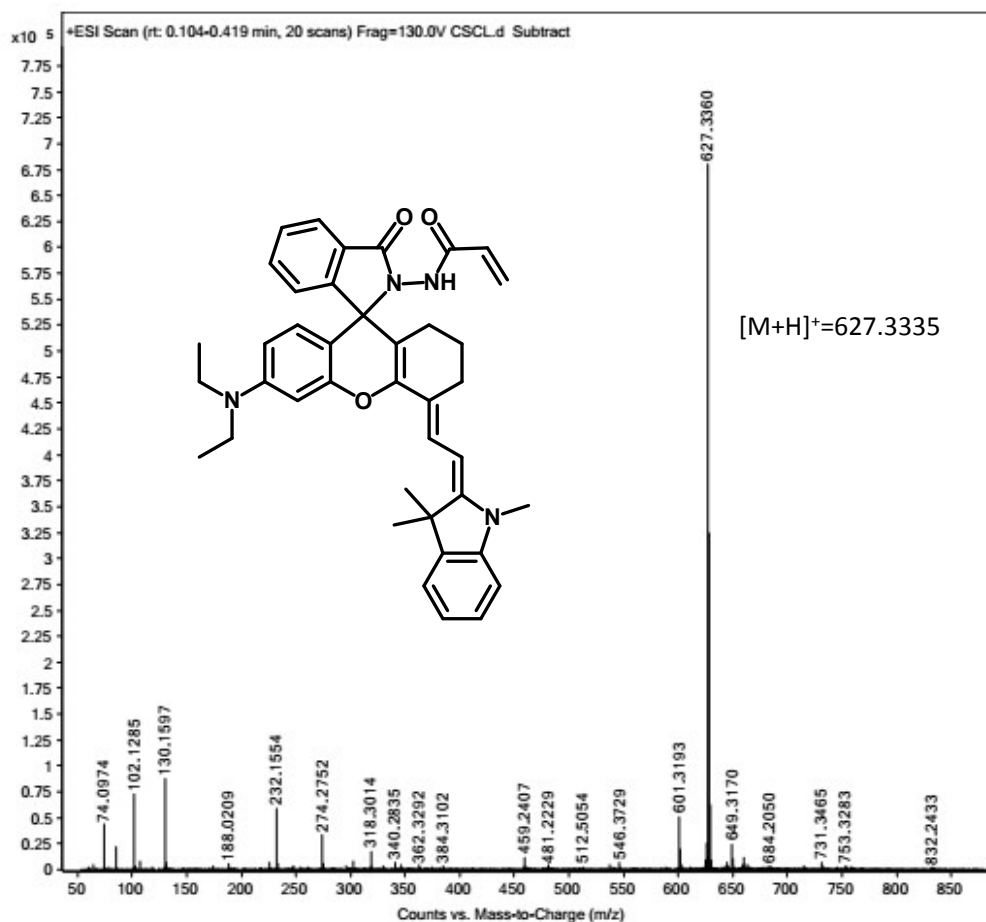


Figure S7. Mass spectra of RhAN.

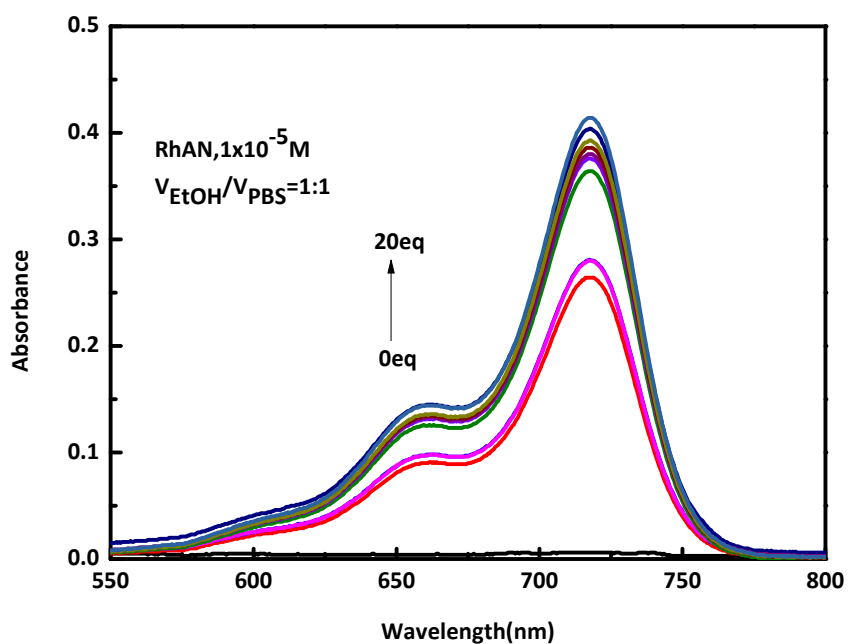


Figure S8. The UV-vis spectra of RhAN (10 μ M) in EtOH/PBS buffer solution (V/V, 1:1, PH = 7.4) after the concentration of GSH (0-20 μ M) is added.

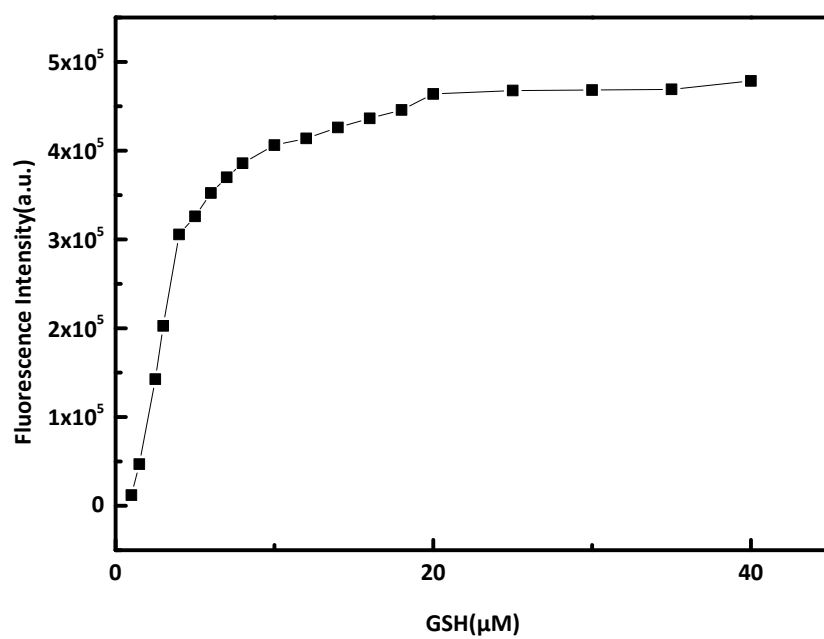


Figure S9. The fluorescence intensity changes of RhAN (10 μM) upon gradual addition of GSH (0-40 μM).