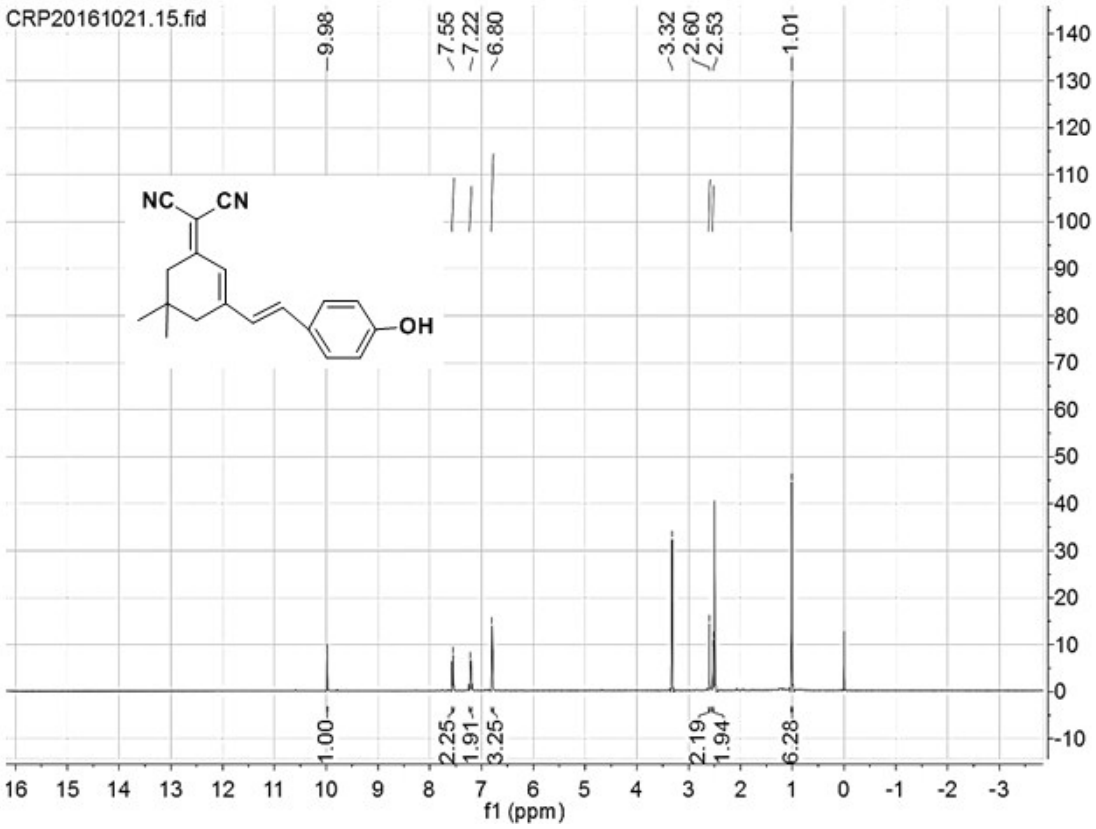
Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B.

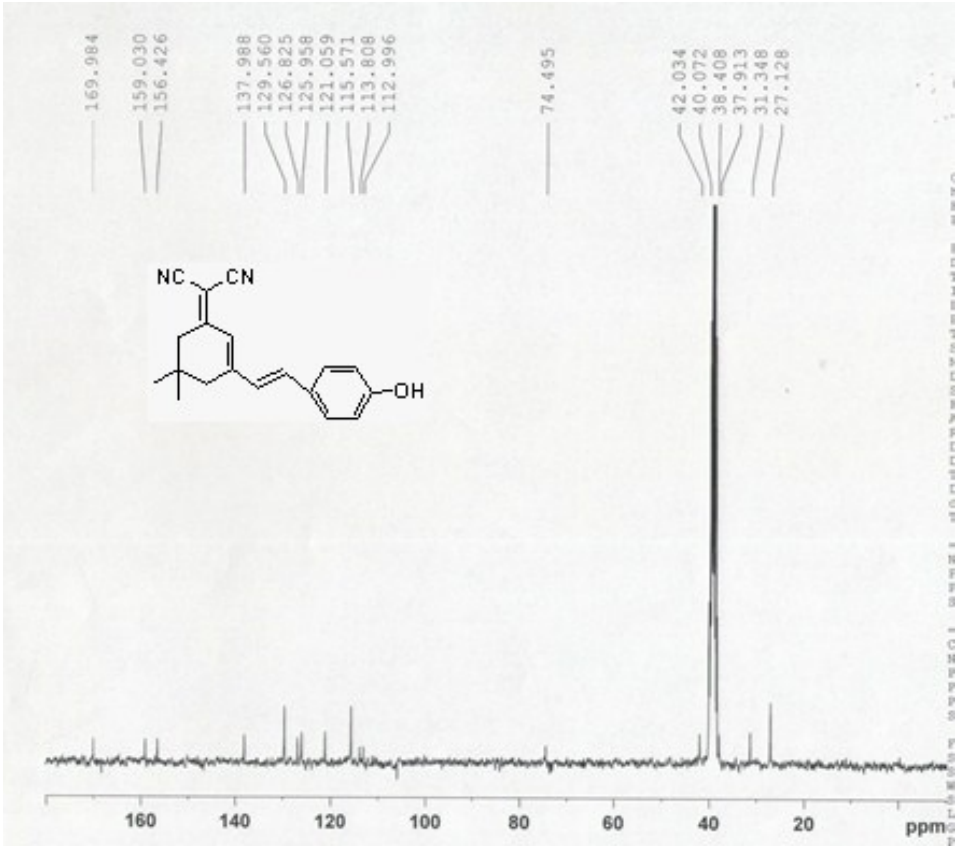
Supporting Information

A novel isophorone-based red-emitting fluorescent probe for selective detection of sulfide anion in water for invivo imaging

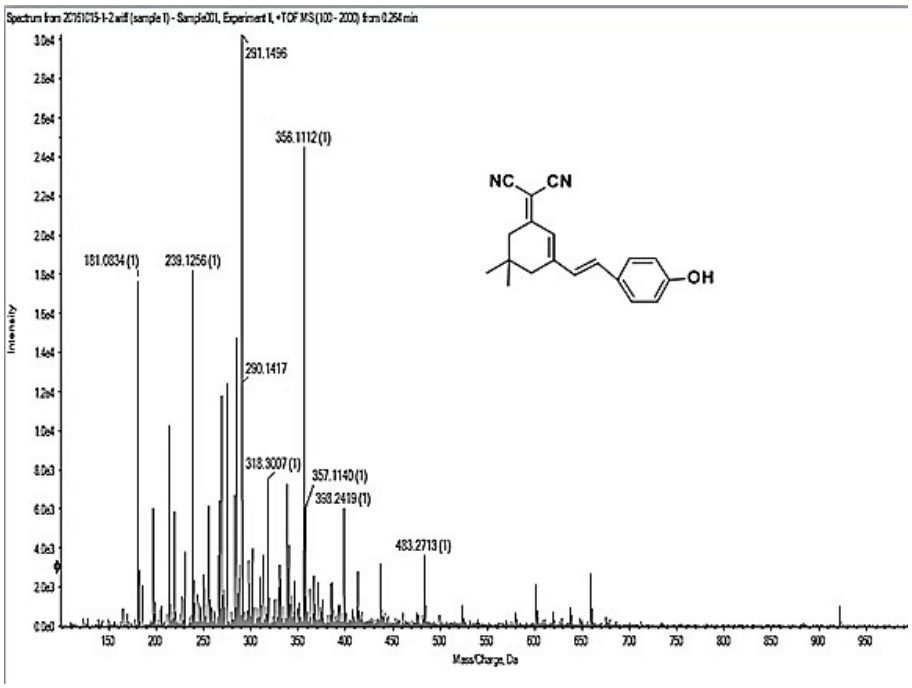
Figure S1: ^{1}H NMR, ^{13}C NMR, and ESI-MS of the compound **2**.



The ^{1}H NMR (600MHz) spectra of the compound **2** in DMSO-d_6.

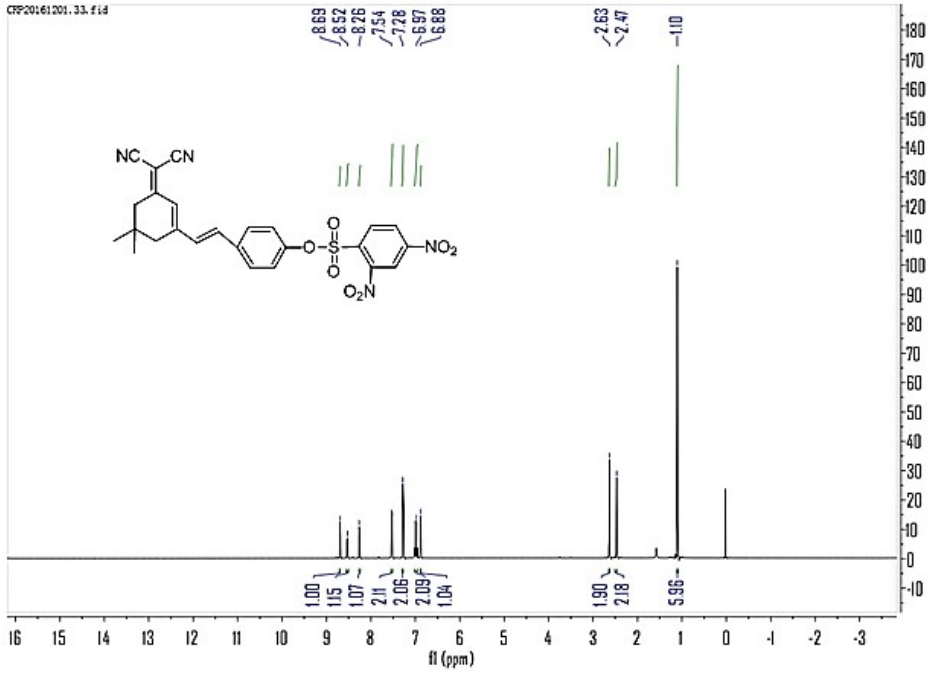


The ^{13}C NMR (150 MHz) spectra of the compound **2** in DMSO-d_6.

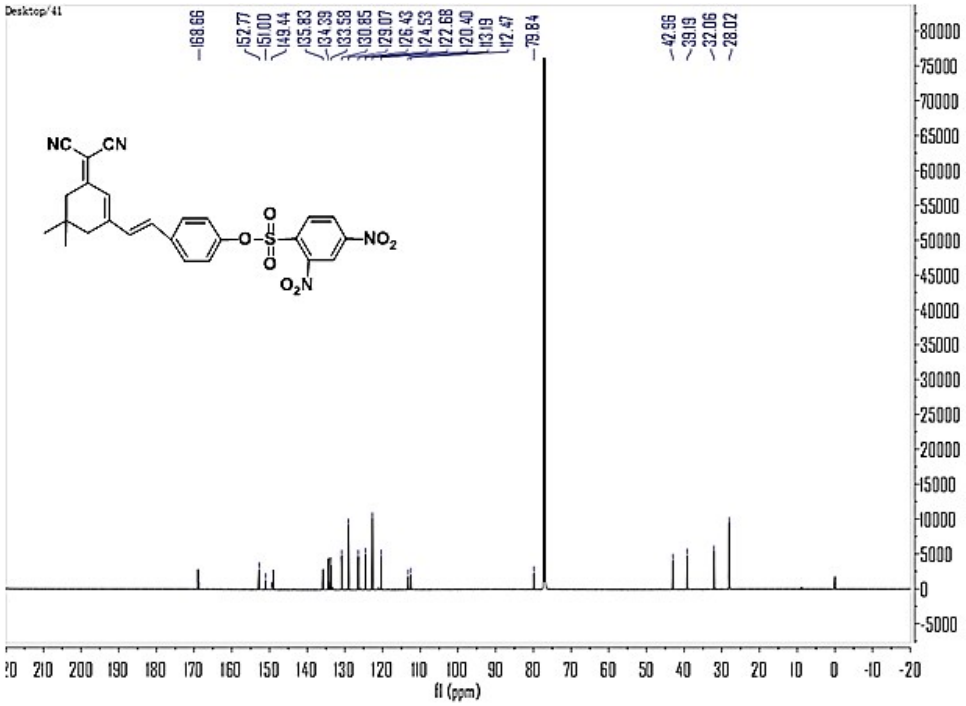


The ESI-MS of the compound **2:** m/z: $[M + H]^+$ calcd for $C_{19}H_{16}N_2O$ [M+1]: 291.14, found 291.15

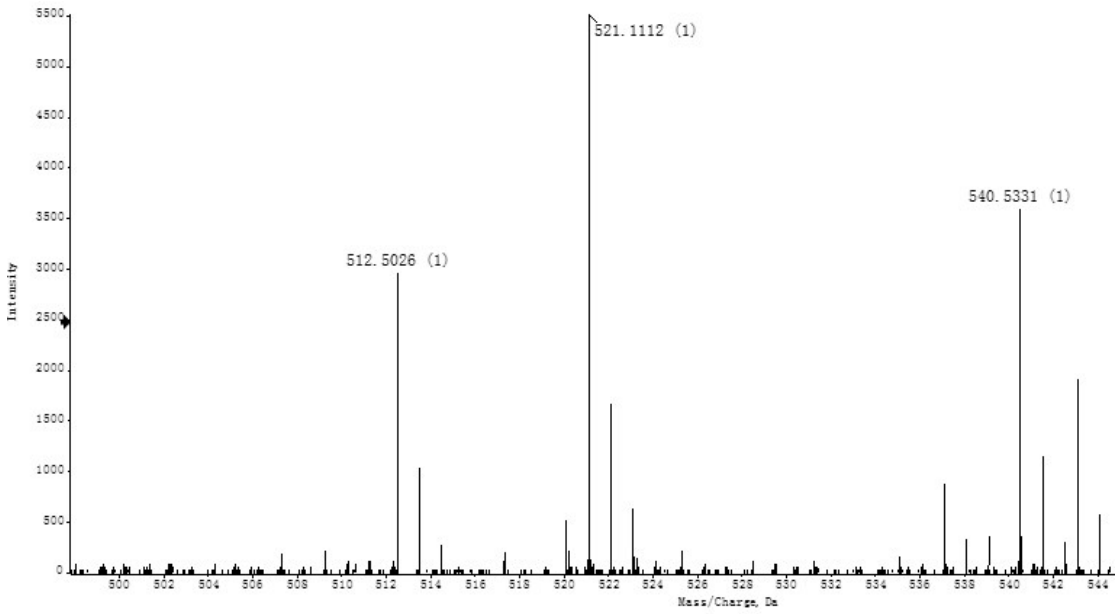
Figure S2: ^{1}H NMR, ^{13}C NMR, and ESI-MS of the **SP1**.



The ^{1}H NMR (600MHz) spectra of the **SP1** in DMSO-d_6.



The ^{13}C NMR (150 MHz) spectra of the **SP1** in DMSO-d_6.



The ESI-MS of the **SP1:** m/z: [M + H] $^{+}$calcd for $C_{19}H_{16}N_2O$ $[M+1]^{+}$: 521.11, found 521.11.

Figure S3: The fluorescence spectral changes of **SP1(**10 μM**)** after the addition of $^{-}$Cys, Hcy, GSH and thioglycol (0-200 μM). Spectra were acquired in PBS buffer (λ_{ex} = 523 nm, slit: 10 nm/10 nm).

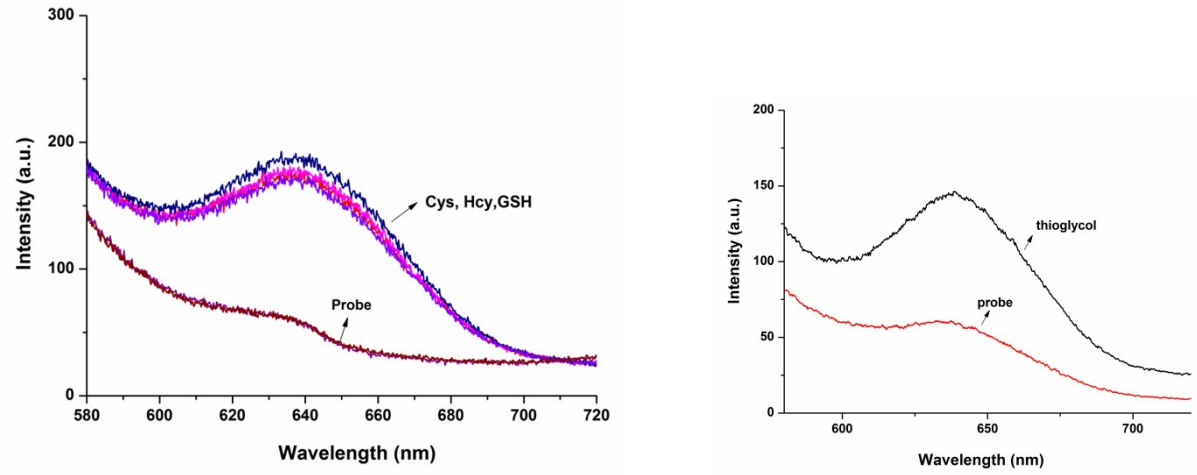
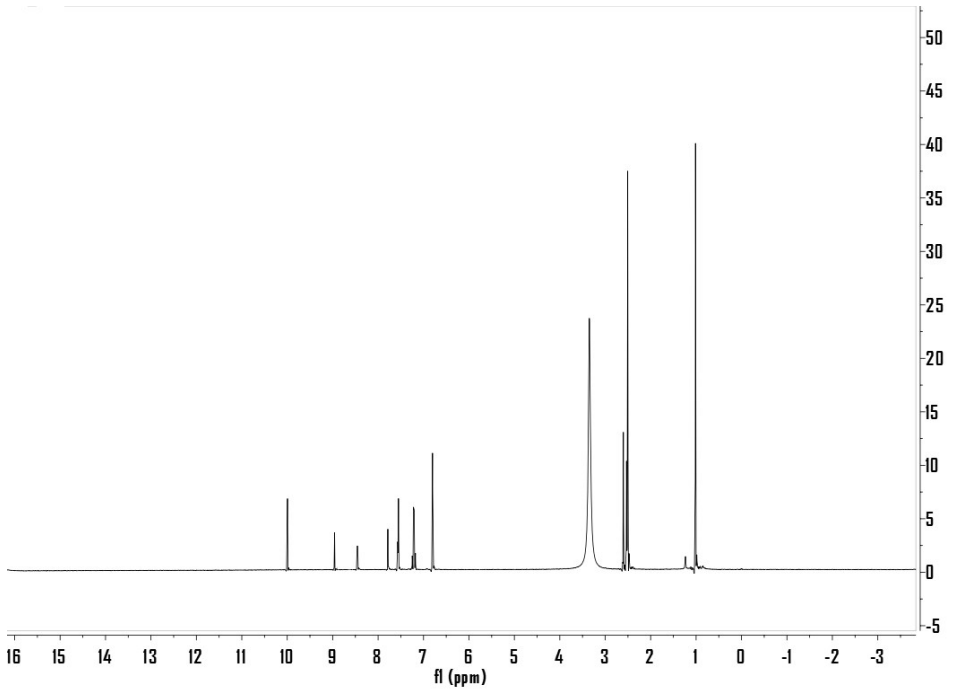
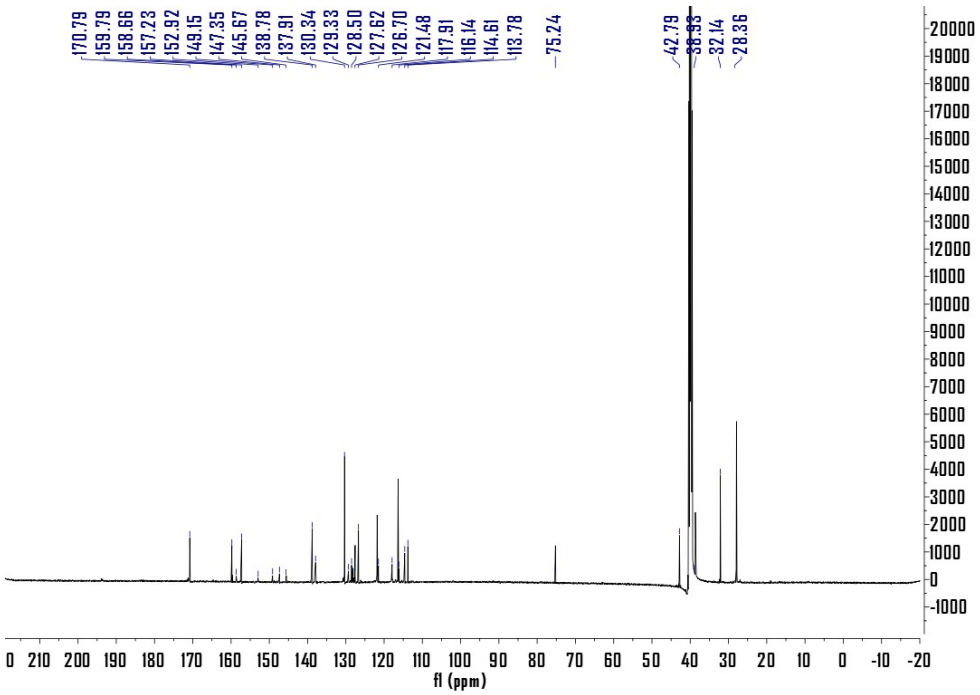


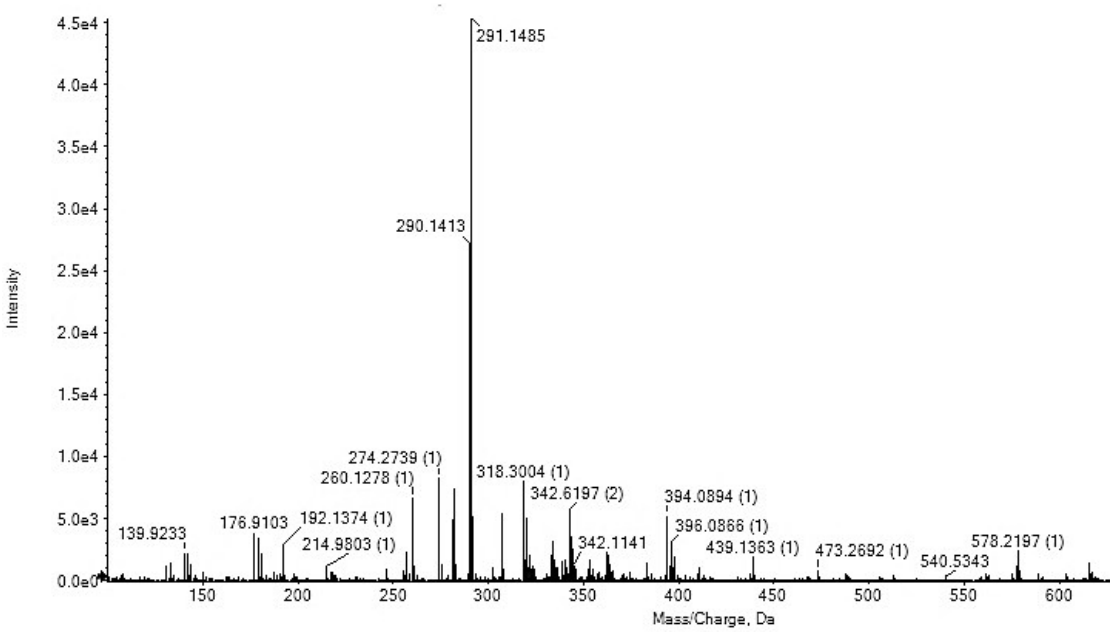
Figure S4: ^{1}H NMR, ^{13}C NMR and ESI-MS of the **SP1**+ S^{2-}.



The ^{1}H NMR (600MHz) spectra of the **SP1** after the addition of S^{2-} in DMSO-d_6 .



The^{13}C NMR (150MHz) spectra of the **SP1** after the addition of S^{2-} in DMSO-d_6 .



The ESI-MS of the **SP1** after the addition of S^{2-} in DMSO-d_6