

Supporting information

Synthesis, cytotoxicity and bioimaging of novel Hg^{2+} selective fluorogenic chemosensor

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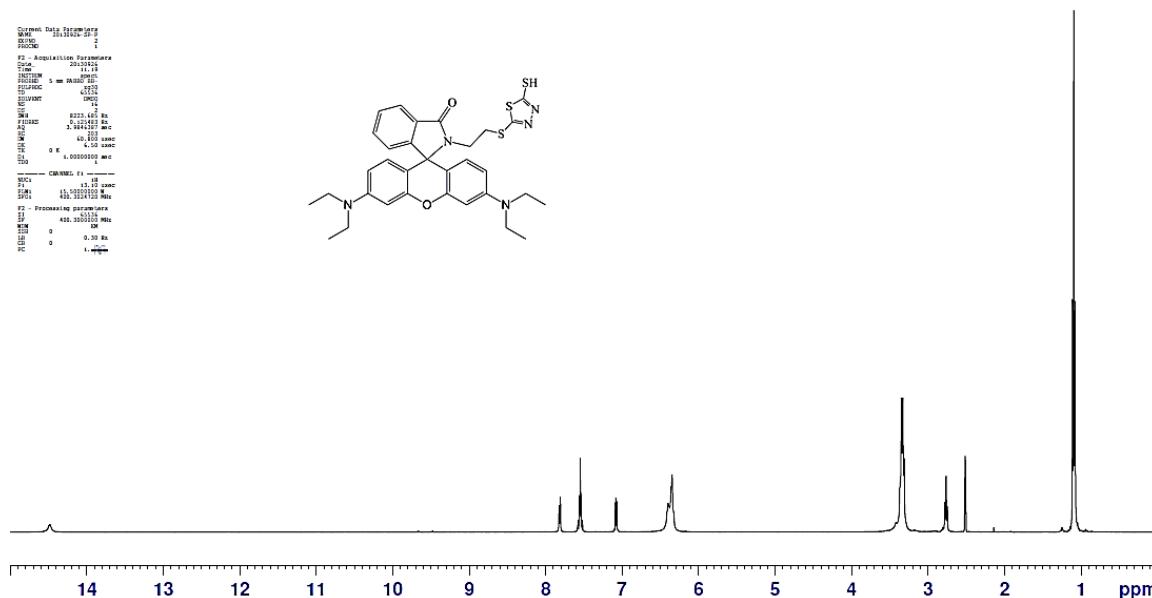


Figure S1: ^1H NMR Spectrum of ligand in $\text{DMSO}-d_6$.

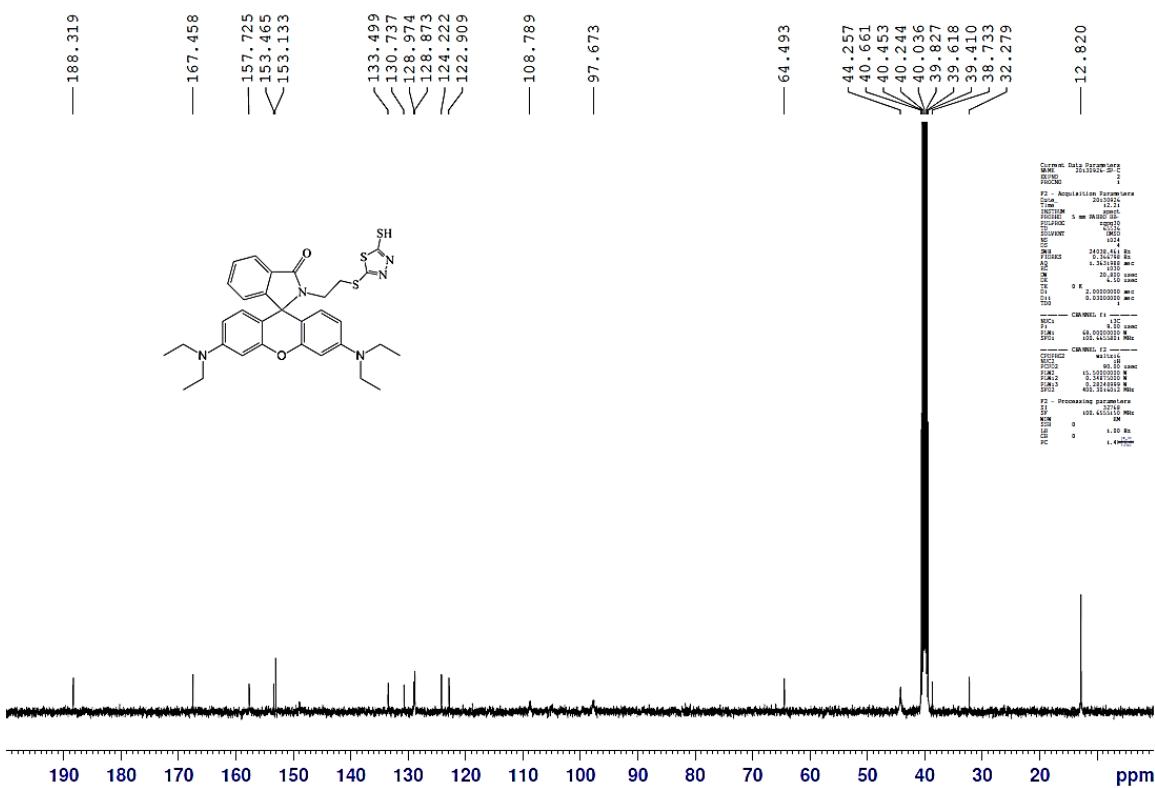


Figure S2: ^{13}C NMR Spectrum of ligand in $\text{DMSO}-d_6$.

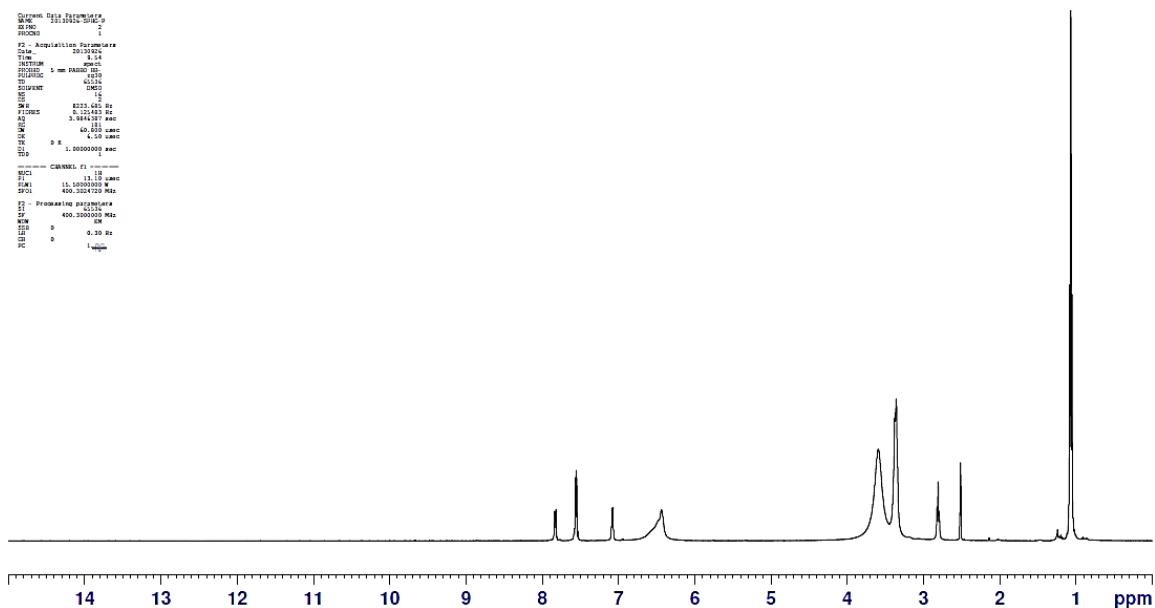
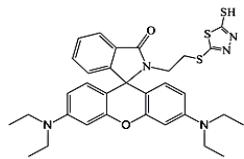
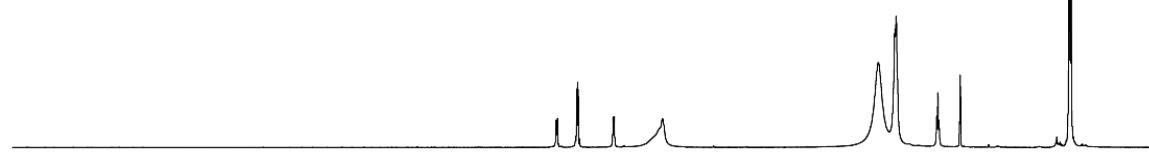


Figure S3: ^1H NMR Spectrum of ligand + Hg^{2+} in $\text{DMSO}-d_6$.

Ligand



Ligand + 1 eq. Hg^{2+}



Ligand + 2 eq. Hg^{2+}



Ligand + 3 eq. Hg^{2+}



Ligand + 4 eq. Hg^{2+}



Figure S4: ^1H NMR Spectrum of ligand + Hg^{2+} in $\text{DMSO}-d_6$.

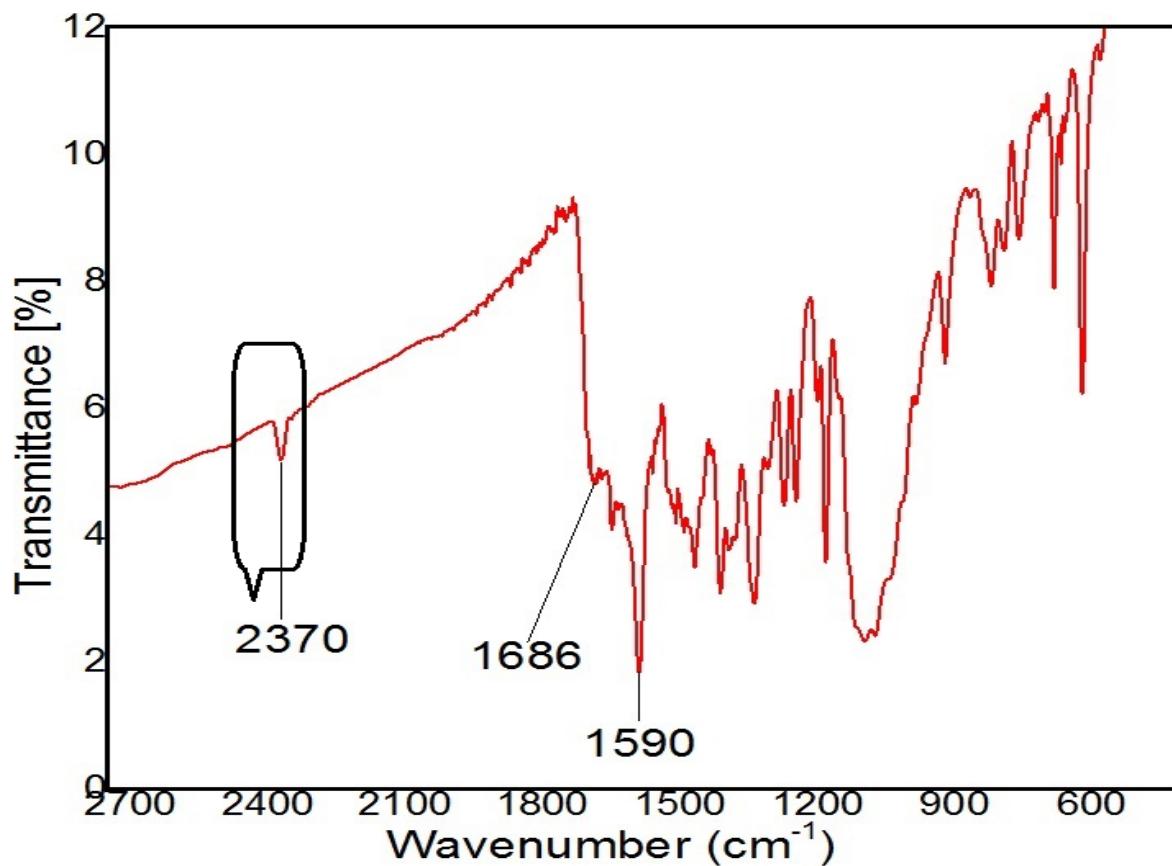


Figure S5: FT-IR Spectrum of ligand 2.

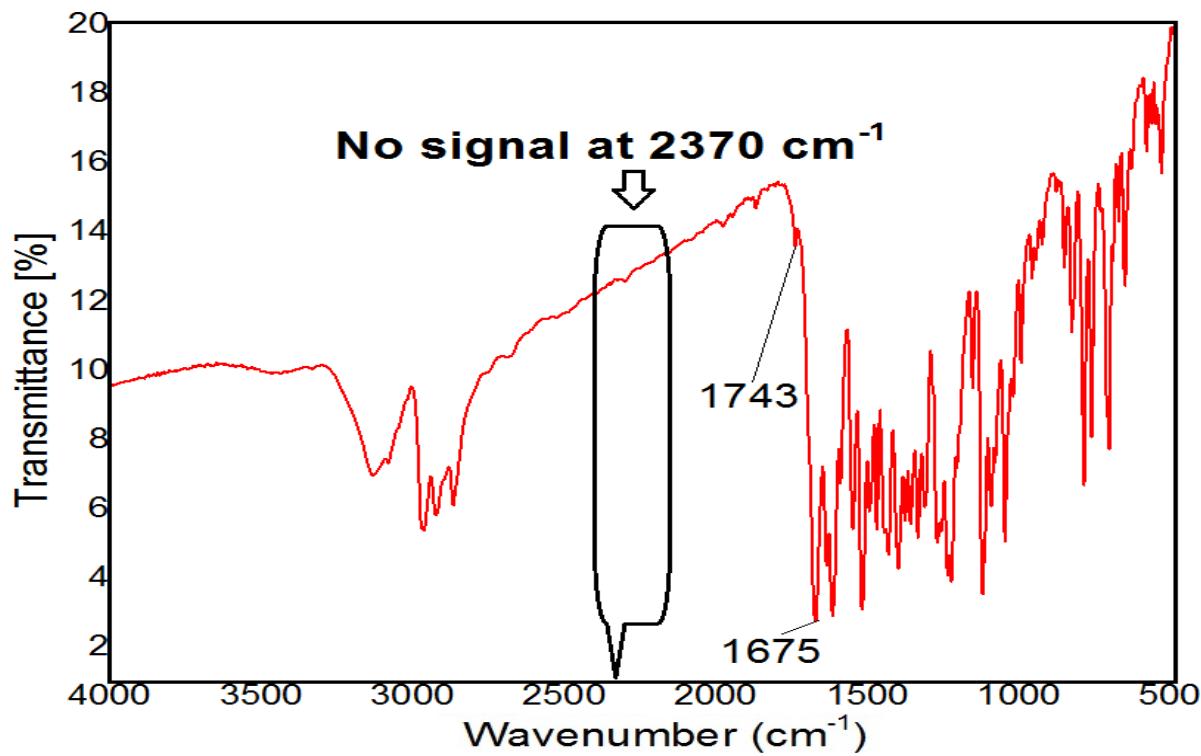


Figure S6: FT-IR spectrum of ligand + Hg^{2+} .

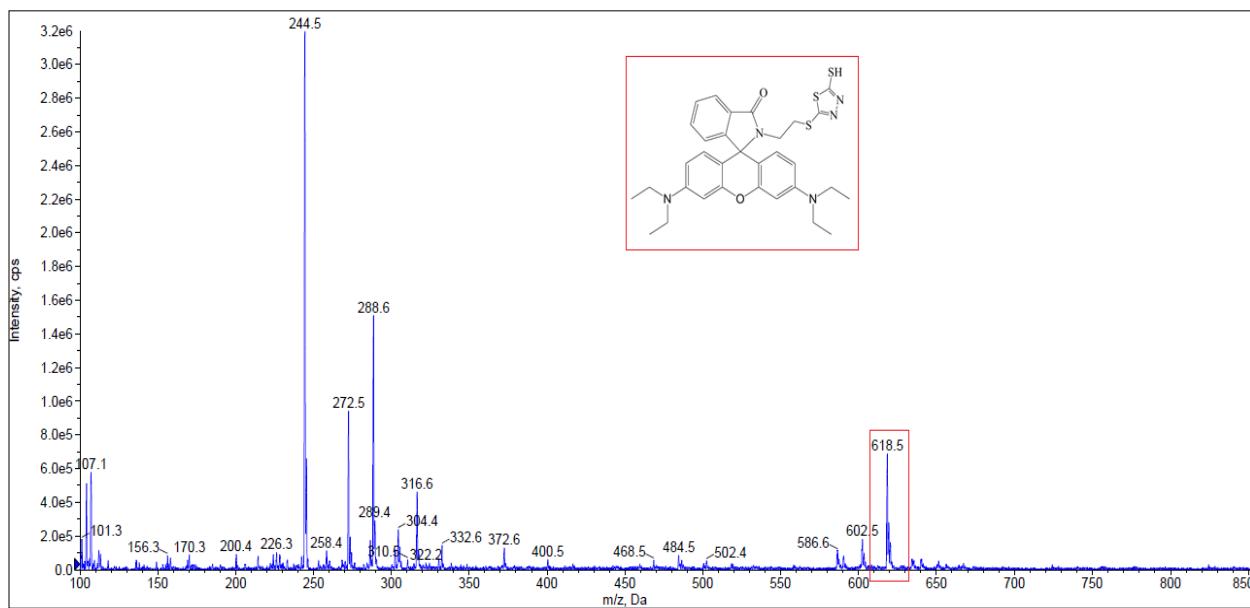


Figure S7: Mass spectrum of ligand.

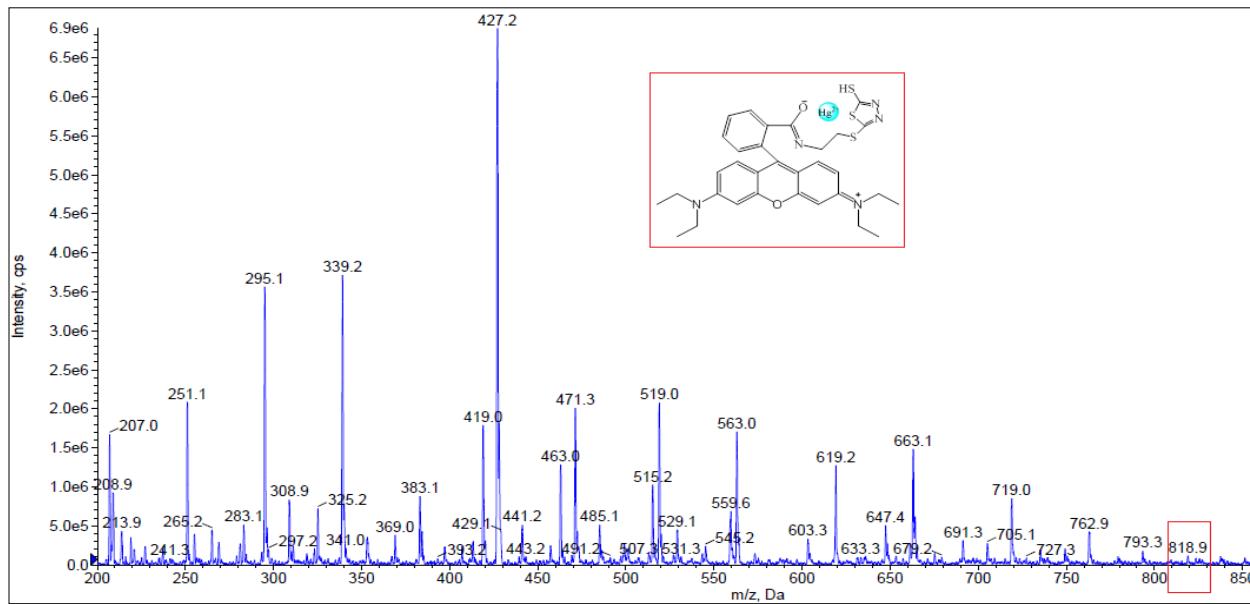


Figure S8: Mass spectrum of ligand-mercury complex.

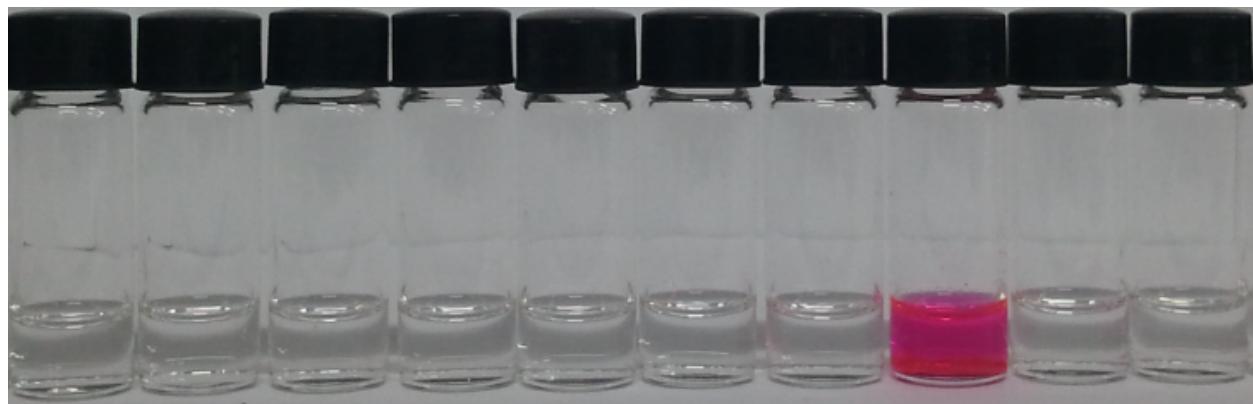


Figure S9: Colorimetric change of ligand **2** solution after addition of mercuric ion and various ions under ambient light.