Supporting information for

Development of a New rhodamine-based FRET Platform and the Applications for Cu^{2+} probe

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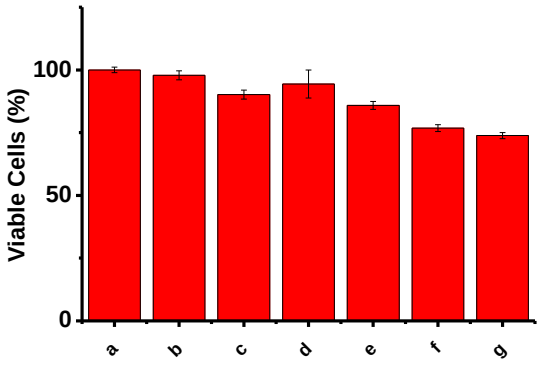

Fig. S1 Cytotoxicity assays of ratiometric probe **FRET-1** at different concentrations (a: 0 μM; b: 5 μM; c: 10 μM; d: 20 μM; e: 30 μM; f: 50 μM; f: 100 μM) for MCF-7 cells.

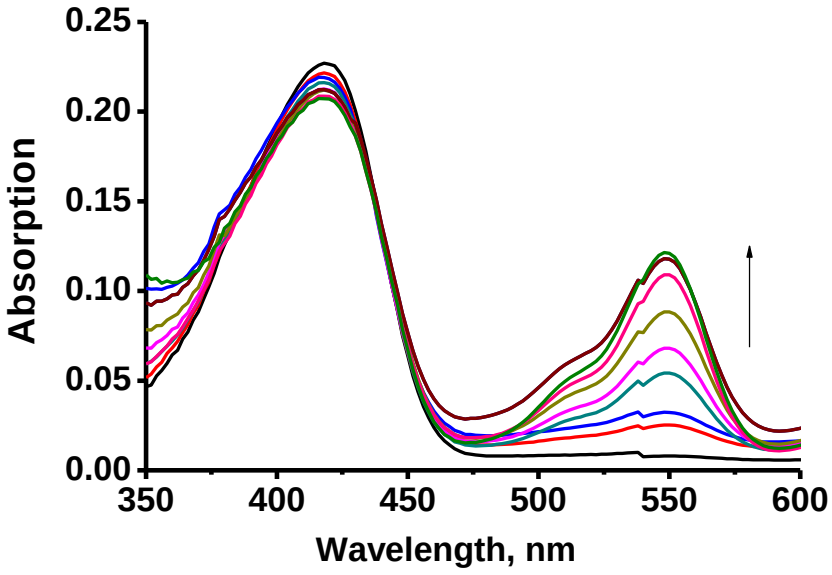

Fig. S2 Absorption spectral changes of novel ratiometric **FRET-1** (1 μM) upon addition of Cu^{2+} (0- 40 equiv.) in HEPES buffer (pH 7.0, containing 20% CH_3CN as a co-solvent).

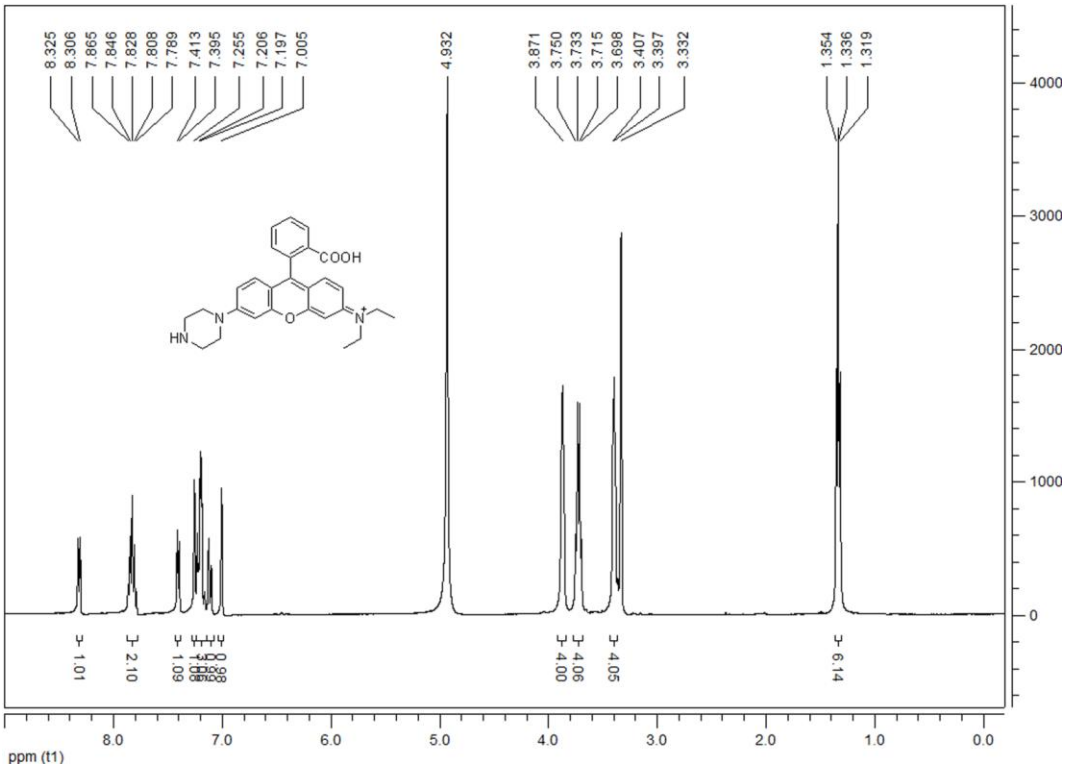

Figure S3. ^{1}H NMR spectrum of compound **a**.

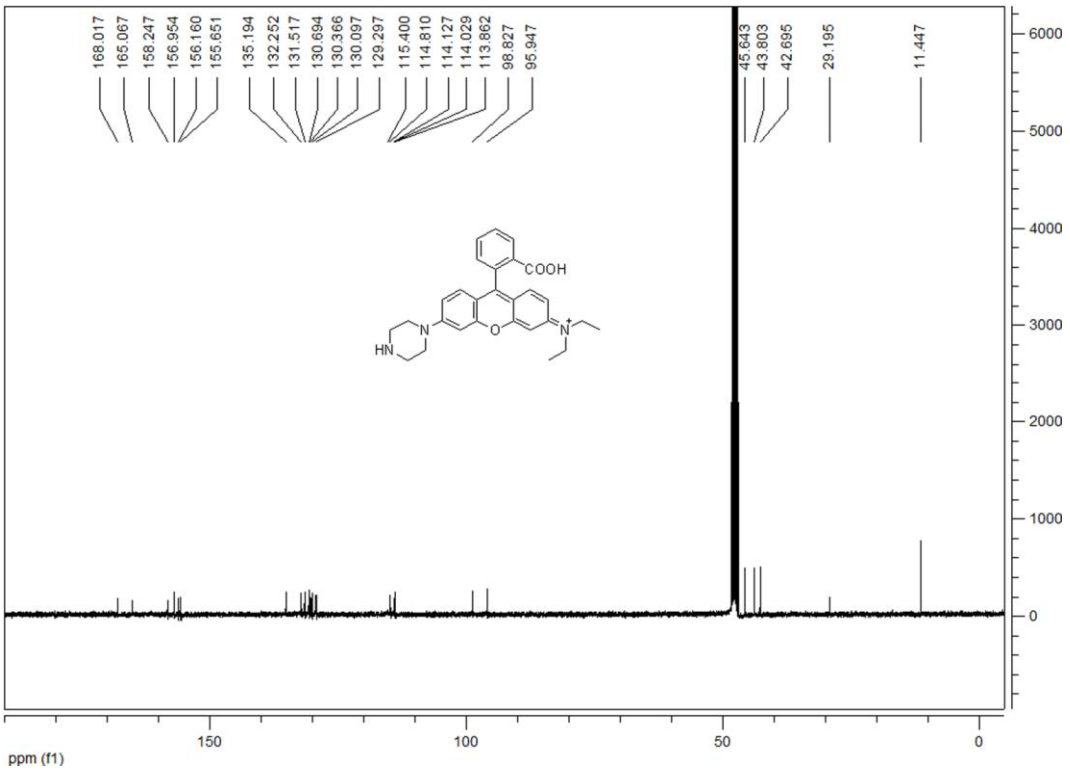

Figure S4. ^{13}C NMR spectrum of compound **a**.

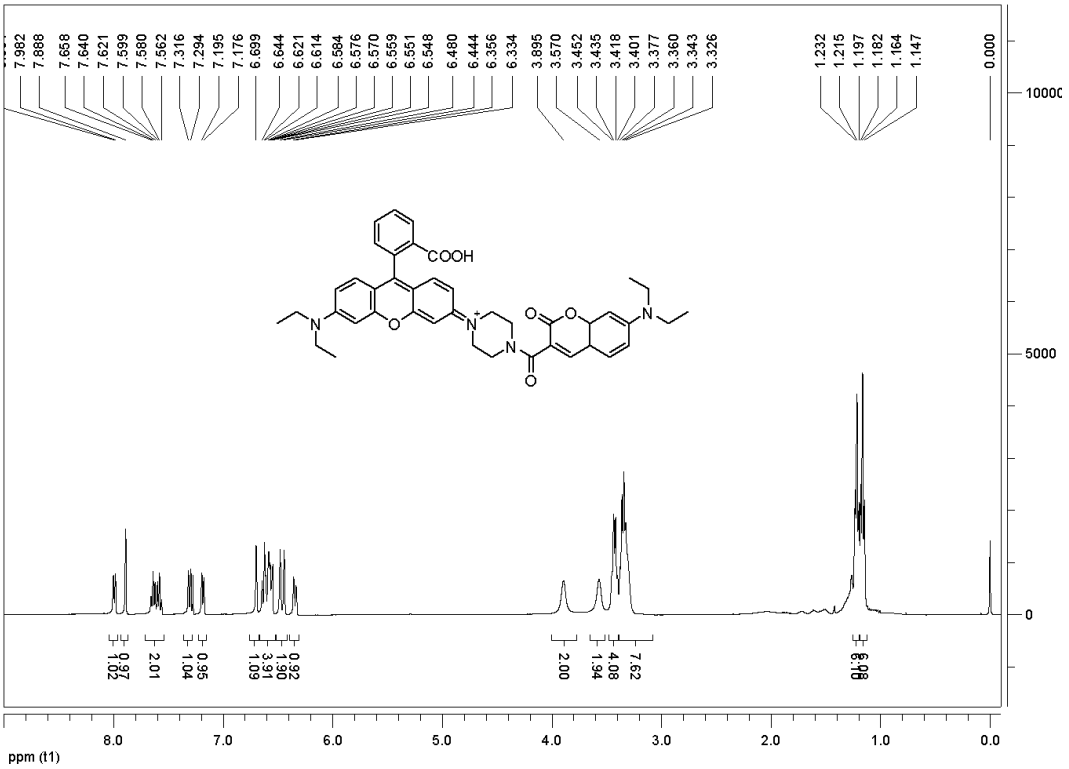

Figure S5. ^{1}H NMR spectrum of compound **FRET-dyad**.

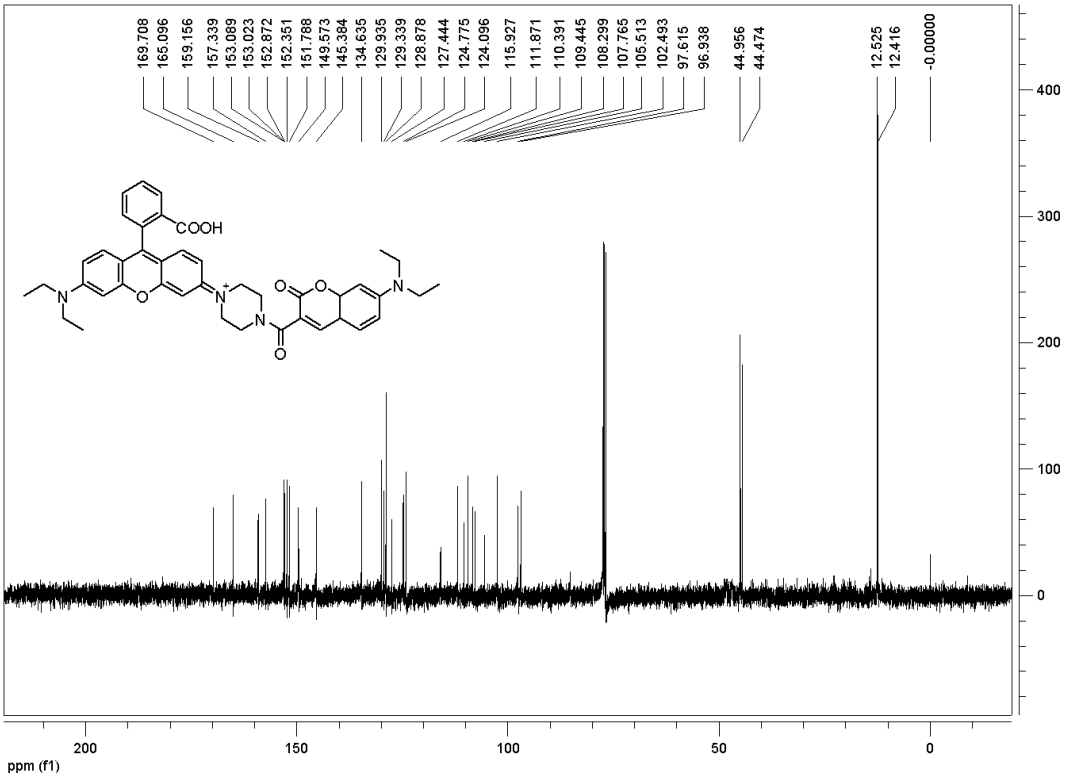

Figure S6. ^{13}C NMR spectrum of compound **FRET-dyad**.

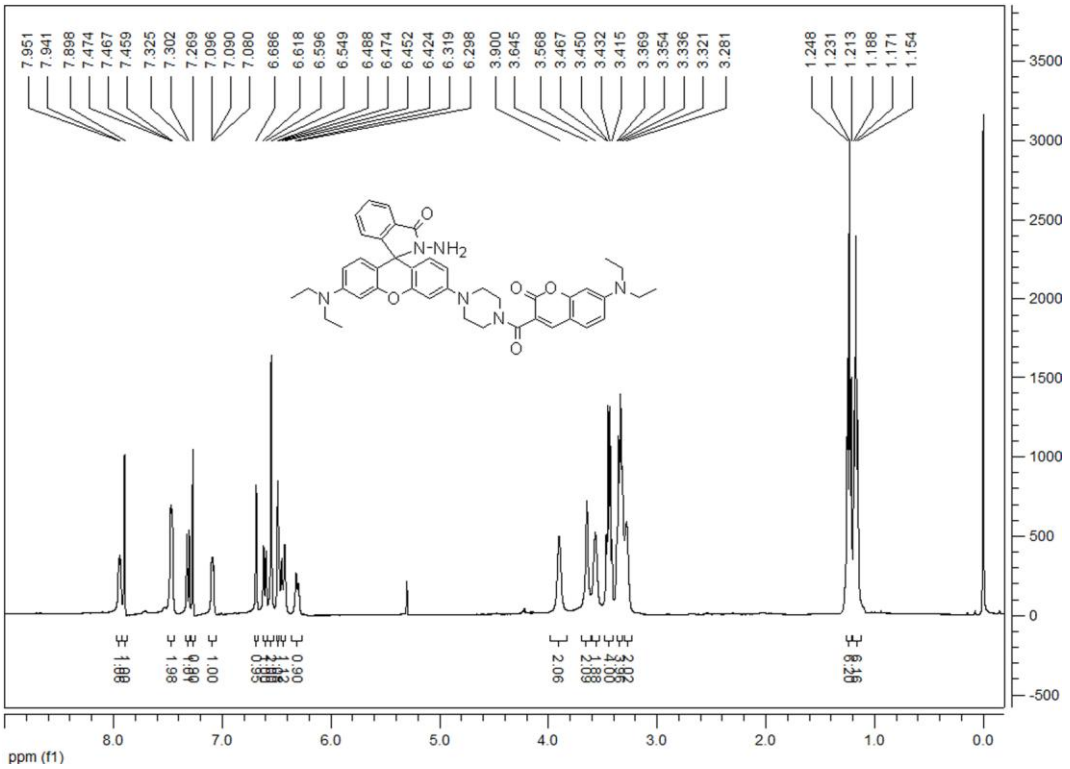

Figure S7. ^{1}H NMR spectrum of **FRET-1**.

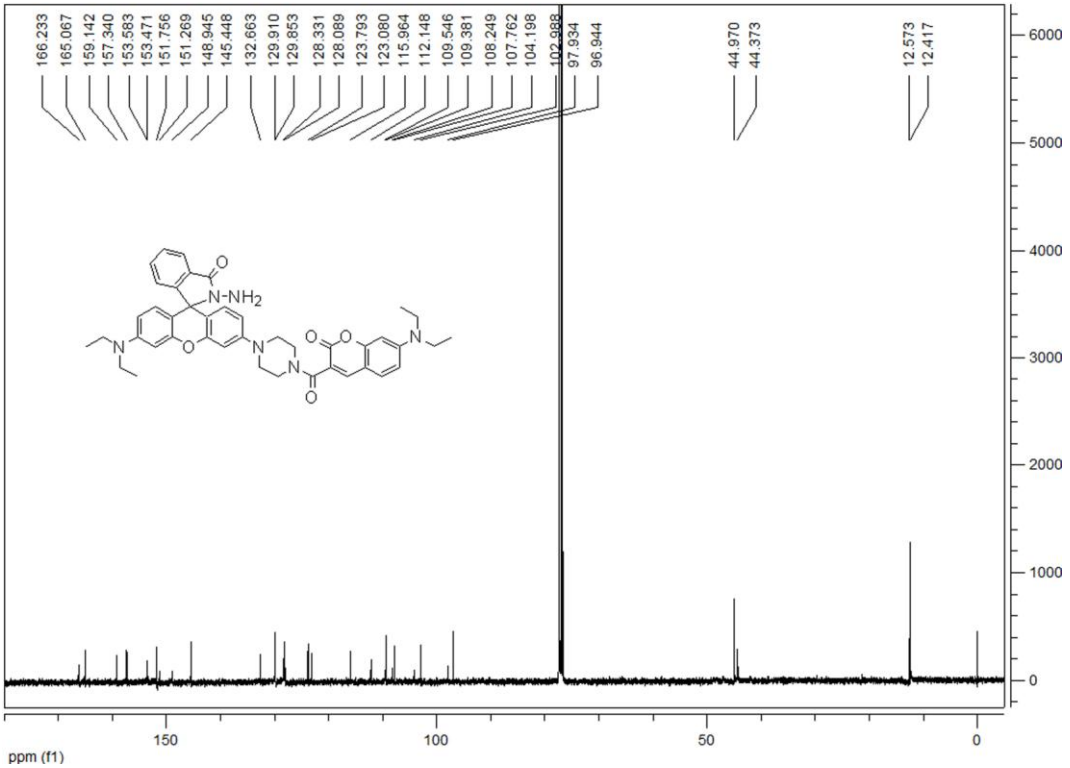

Figure S8. ^{13}C NMR spectrum of **FRET-1**.