A Novel Fluorescent Sensor for Fe^{3+} Based on a Quinoline Derivative

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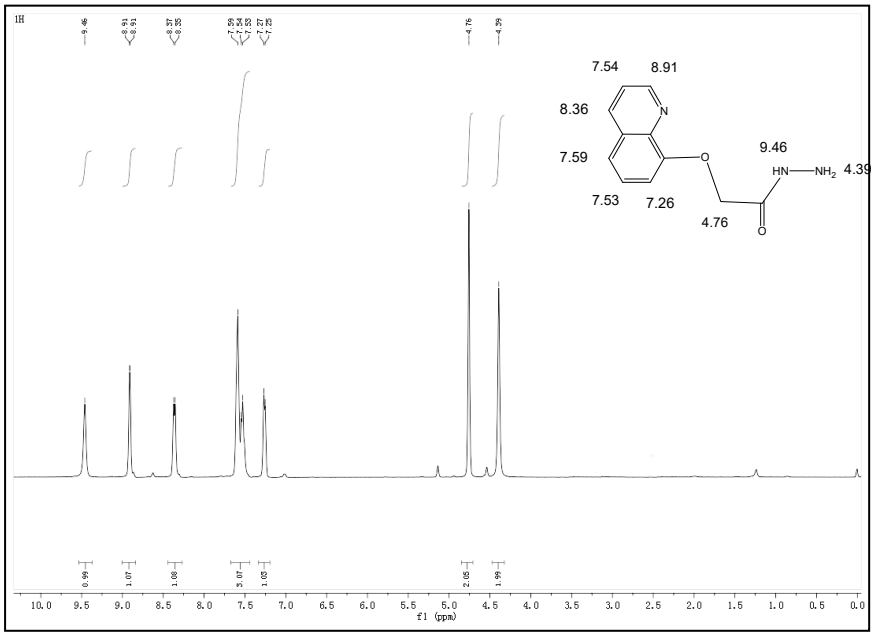


Figure S1. ^{1}H NMR (300 MHz) spectrum of intermediate 2 (10μmol/L) in DMSO-d_6

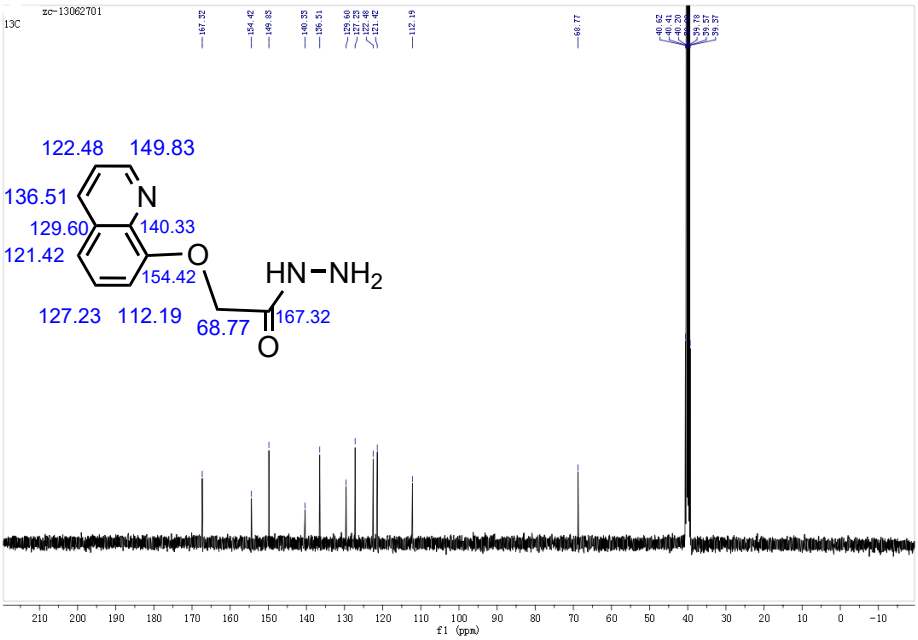


Figure S2. ^{13}C NMR (75 MHz) spectrum of intermediate 2 (10μmol/L) in DMSO-d_6

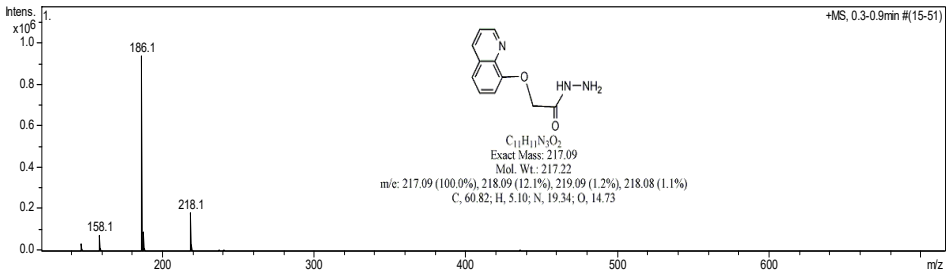


Figure S3. LC-MS of intermediate 2

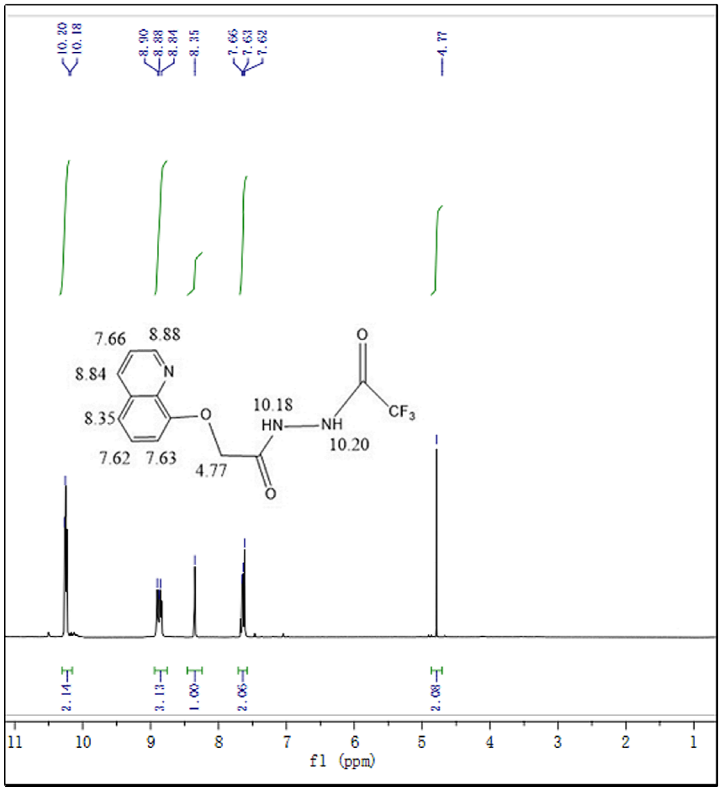


Figure S4. ^{1}H NMR (300 MHz) spectrum of Sensor TQA (10μmol/L) in DMSO-d_6

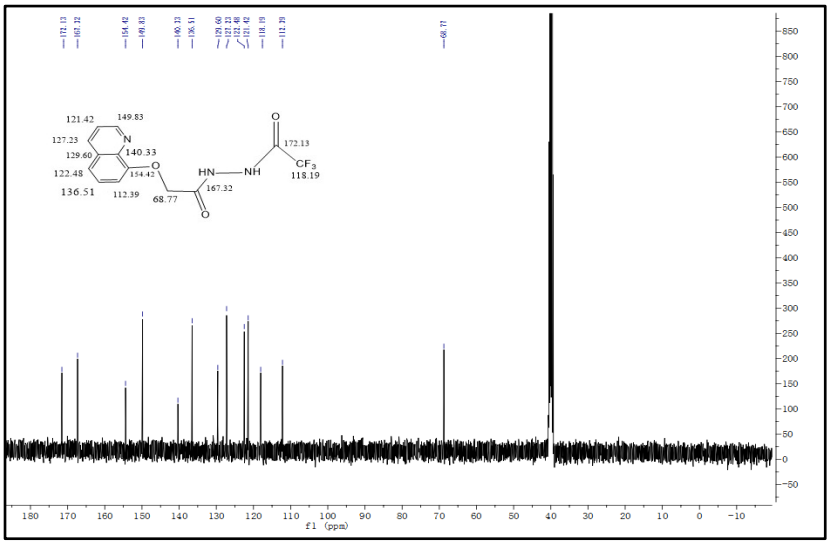


Figure S5. ^{13}C NMR (75 MHz) spectrum of Sensor TQA (10μmol/L) in DMSO-d_6

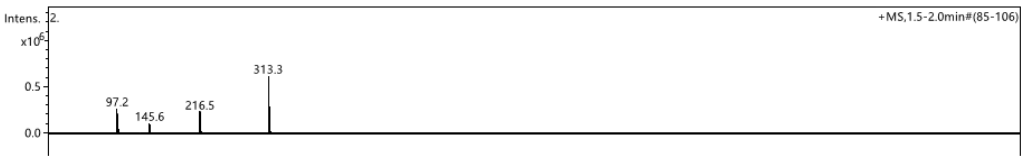


Figure S6. LC-MS of Sensor TQA

Chemical Formula: $C_{13}H_{10}F_3N_3O_3$

Exact Mass: 313.07

Molecular Weight: 313.24

m/z: 313.07 (100.0%), 314.07 (14.3%), 315.07 (1.7%), 314.06 (1.1%)

Elemental Analysis: C, 49.85; H, 3.22; F, 18.20; N, 13.42; O, 15.32

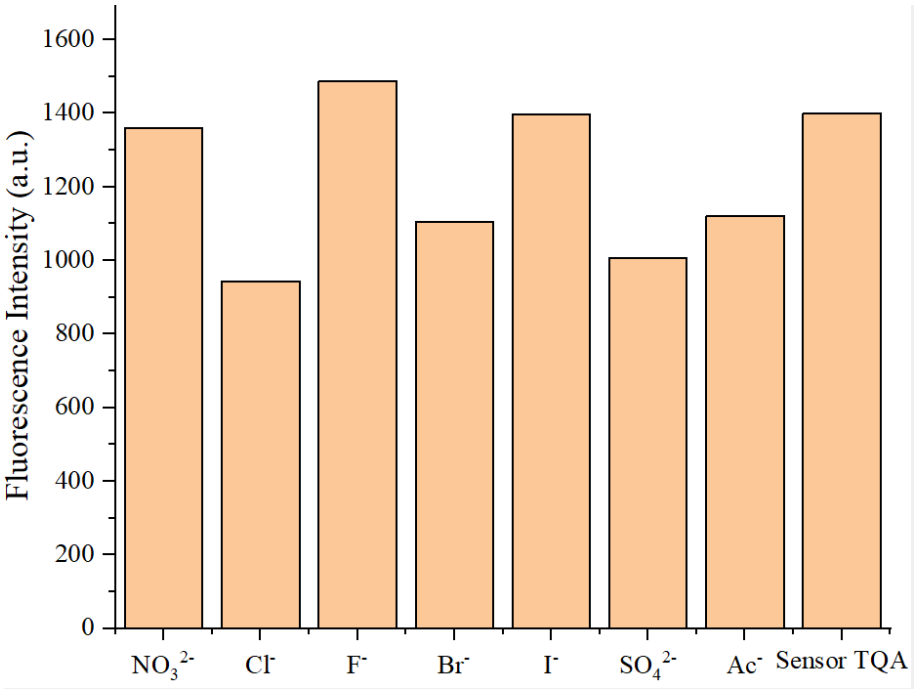


Figure S7. Fluorescence response of common anions to Sensor TQA in DMF/water solution (v:v=1:1, pH 7.4, λ_{ex}=301 nm, λ_{em}=397 nm)