

Electronic Supplementary Information

A Novel Quinoline Derivatives as a Highly Selective and Sensitive Fluorescent sensor for Fe³⁺ detection

LUO Mingxin,^a SUN Bo,^b ZHOU Chen,^a PAN Qingqing,^a HOU Yue,^c ZHANG Huan,^a SUN Jing,^a ZOU Chenyang,^a

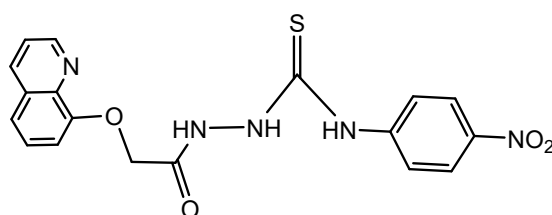
^a School of Chemistry & Environmental Engineering, Jilin Provincial International Joint Research Center of Photo-functional Materials and Chemistry, Changchun University of Science and Technology, Changchun, 130022, PR China

^b Petrochina Jilin Petrochemical Company Refinery, Jilin, 132000, PR China

^c School of Life Science and Technology, Changchun University of Science and Technology, Changchun, 130022, PR China)

Fig.S1 ¹H NMR spectrum of sensor 1

Fig.S2 ¹³C NMR spectrum of sensor 1



Chemical Formula: C₁₈H₁₅N₅O₄S

Exact Mass: 397.08

Molecular Weight: 397.41

m/z: 397.08 (100.0%), 398.09 (19.8%), 399.08 (4.9%), 399.09 (2.8%), 398.08 (2.6%)

Elemental Analysis: C, 54.40; H, 3.80; N, 17.62; O, 16.10; S, 8.07

Fig.S3 HRMS spectrum of sensor 1