

Supplementary data

A Rhodamine-6G-based “turn-on” fluorescent probe for selective detection Fe³⁺ in living cells

Figures

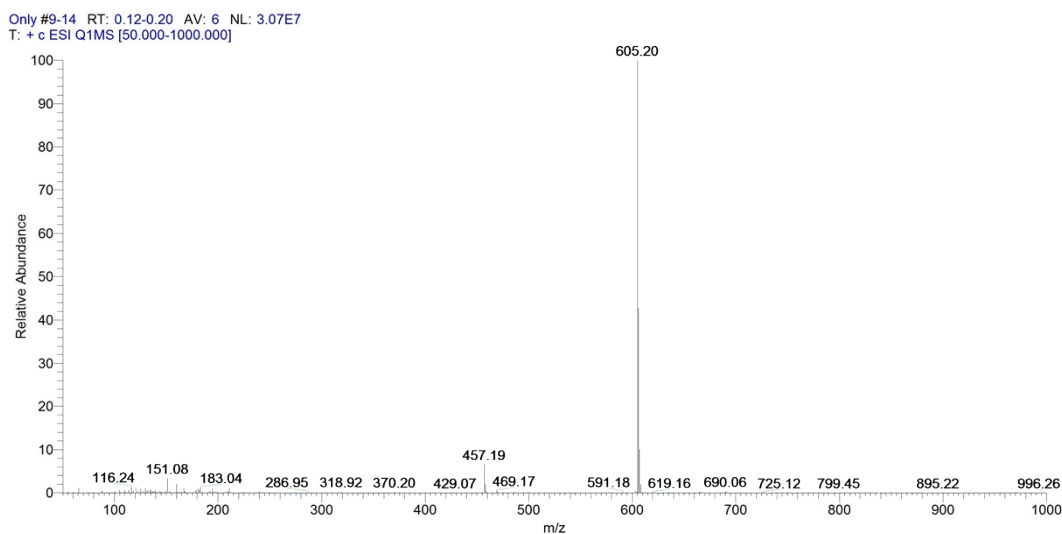


Fig. S1 MS spectrum of R6GES in MeOH.

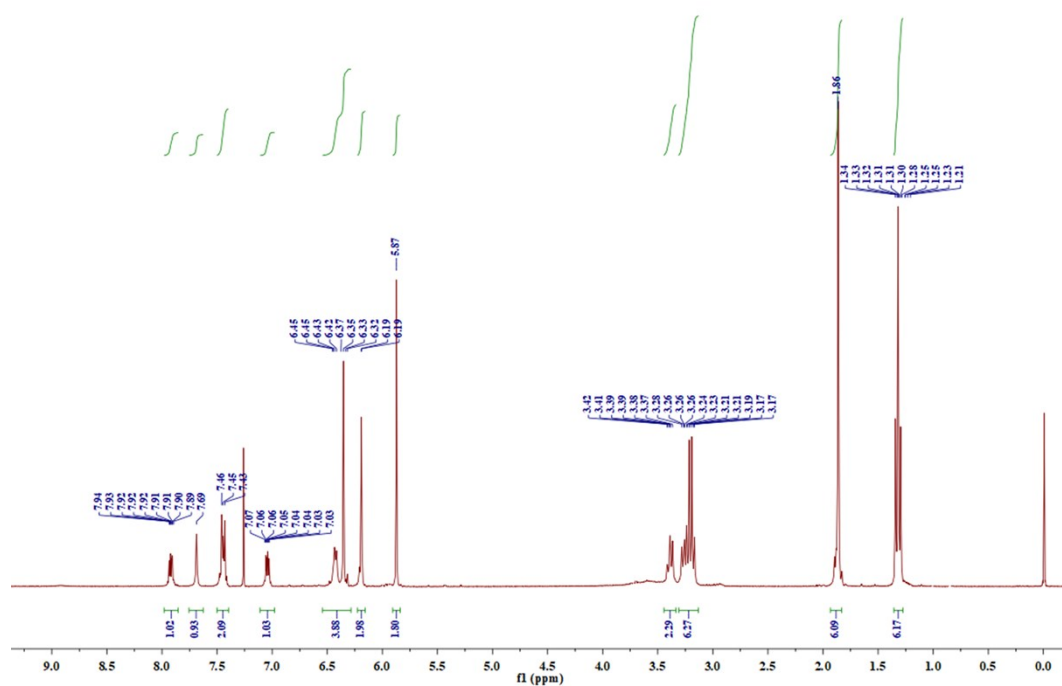


Fig. S2 ¹H-NMR spectrum of R6GES in CDCl₃.

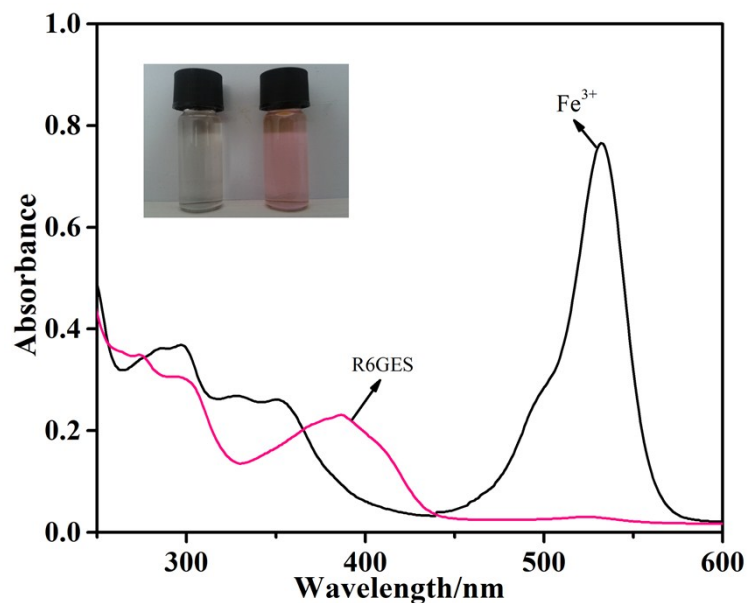


Fig. S3 UV-Vis spectra of R6GES in the absence and presence of Fe^{3+} . Excitation wavelength was 525 nm. Inset is the color change.

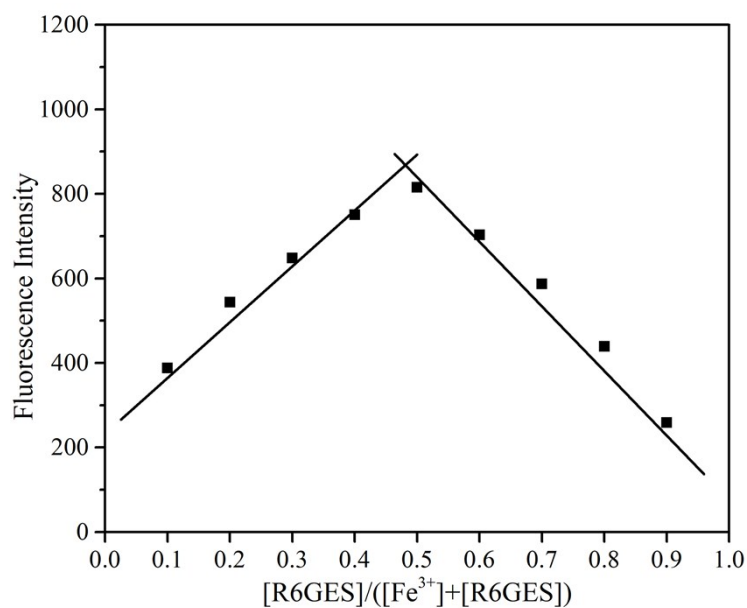


Fig. S4 Job's plot for the stoichiometry determination of R6GES and Fe^{3+} in reaction. Excitation and emission wavelengths of fluorescence detection were set at 525 nm and 556 nm, respectively. $[\text{Fe}^{3+}]$ and $[\text{R6GES}]$ are the concentrations of Fe^{3+} and R6GES in the testing solutions.

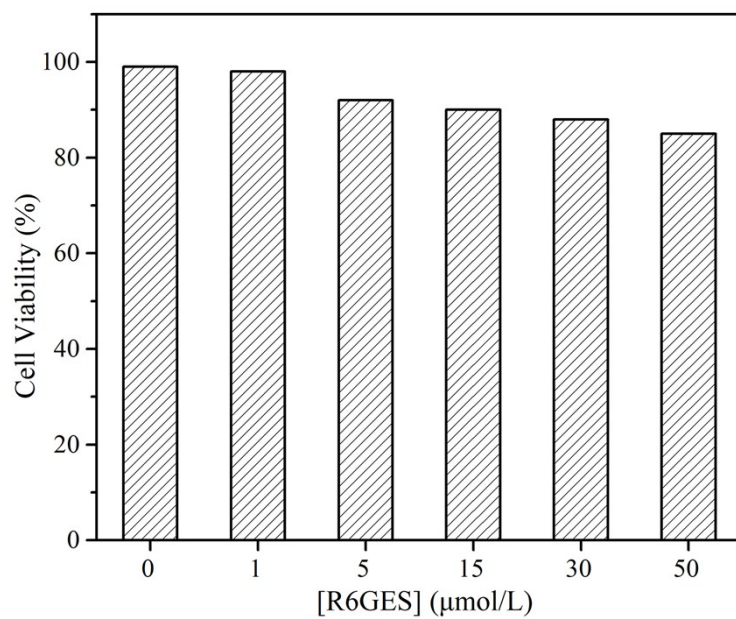


Fig. S5 Cell viability values (%) estimated by MTT proliferation test versus incubation concentrations of R6GES. HeLa cells were cultured in the presence of 0-50 μmol/L R6GES.