Supplementary data

A Rhodamine-6G-based “turn-on” fluorescent probe for selective detection Fe$^{3+}$ in living cells

Figures

Fig. S1 MS spectrum of R6GES in MeOH.

Fig. S2 $^1$H-NMR spectrum of R6GES in CDCl$_3$. 
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. [Fe$^{3+}$] and [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.