Supplementary Material



Figure S1. HPLC spectrum of compound Al-II



Figure S2. ¹H NMR spectrum of compound Al-II

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Figure S3. ¹³C NMR spectrum of compound Al-II.



Figure S4. Fluorescent spectra of **AI-II** probe (10 μ M) with titration of increased concentration of Al³⁺ (1 μ M to 50 μ M) after spectra subtraction of **AI-II** probe.



Figure S5. Nonlinear one-site specific binding curve with relative fluorescent intensity after Al^{3+} (1 µM to 50 µM) titration ($R^2 = 0.9816$, Kd = 10.8).



Figure S6. Fluorescence response of the probe to Al^{3+} in the presence of higher concentration of Na⁺ and K⁺.



Figure S7. Original fluorescent spectra of different combination system of Al^{3+} and probe (with Al^{3+} from 0% to 100%, the total concentration is 10 μ M).



Figure S8. Absorbance spectra of Probe Al-II (25 μ M) with Al³⁺, Cu²⁺ or Fe³⁺ (250 μ M).