

Supporting information

Aggregation-Induced Emission Enhancement upon Al³⁺ Complexation with Tetrasulfonated Calix[4]bisazacrown Fluorescent Molecular Sensor

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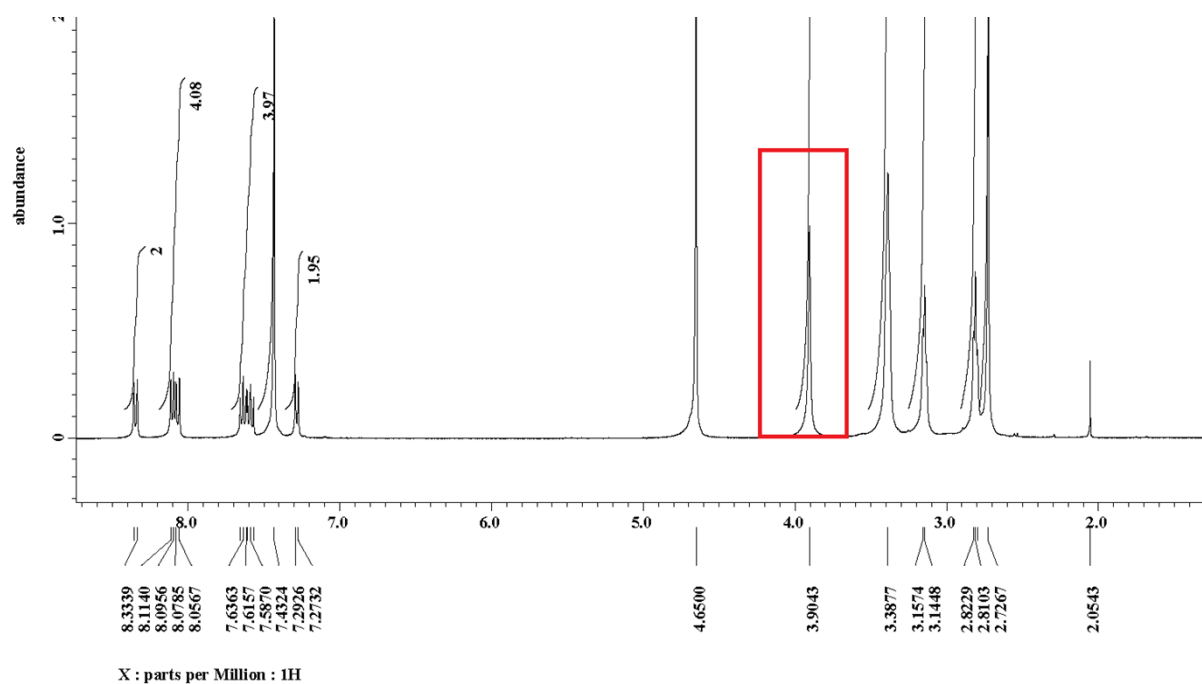


Fig. S1 ^1H NMR of **3** in D_2O .

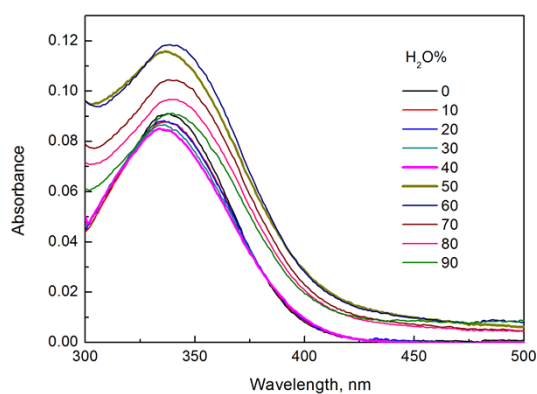


Fig. S2 Absorption spectra of **2** in EtOH- H_2O mixed solution with different fraction of H_2O ; $[\mathbf{2}] = 10\ \mu\text{M}$, $\lambda_{\text{ex}} = 338\ \text{nm}$.

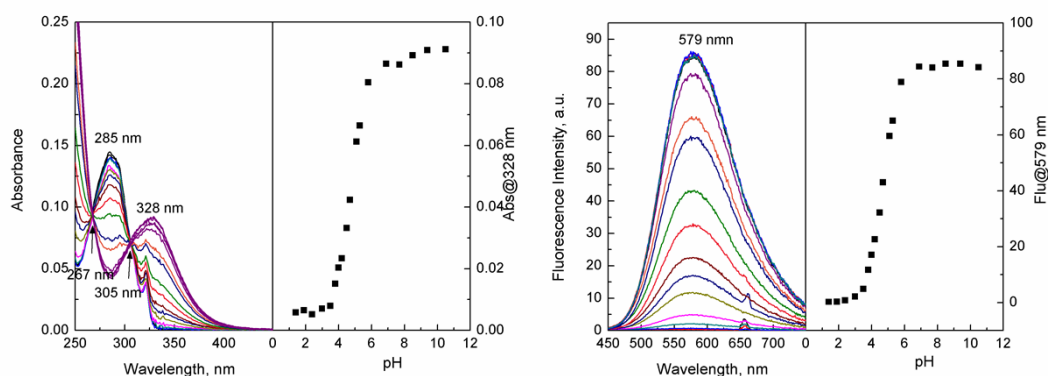


Fig. S3 Absorption (left) and fluorescence (right) of **3** at different pH in milli-Q water, pH was adjusted by HClO_4 and NaOH , $[\mathbf{3}] = 10\ \mu\text{M}$.

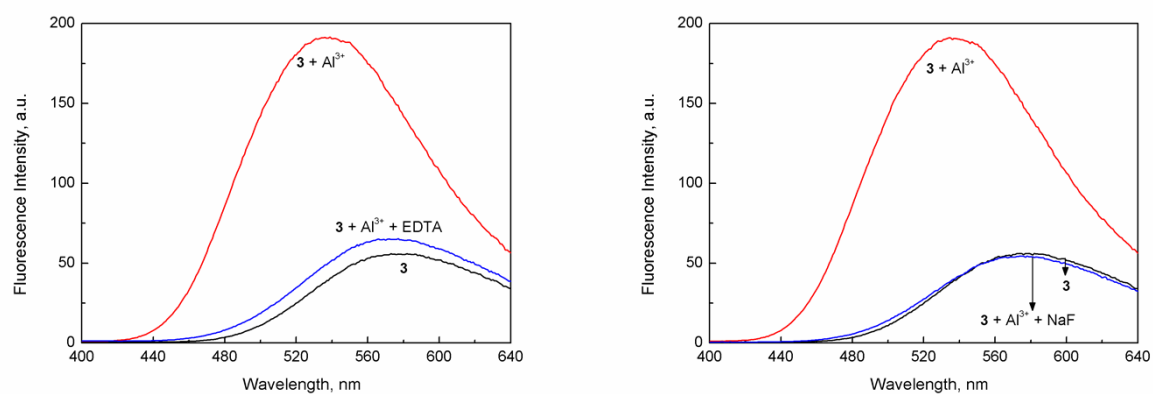
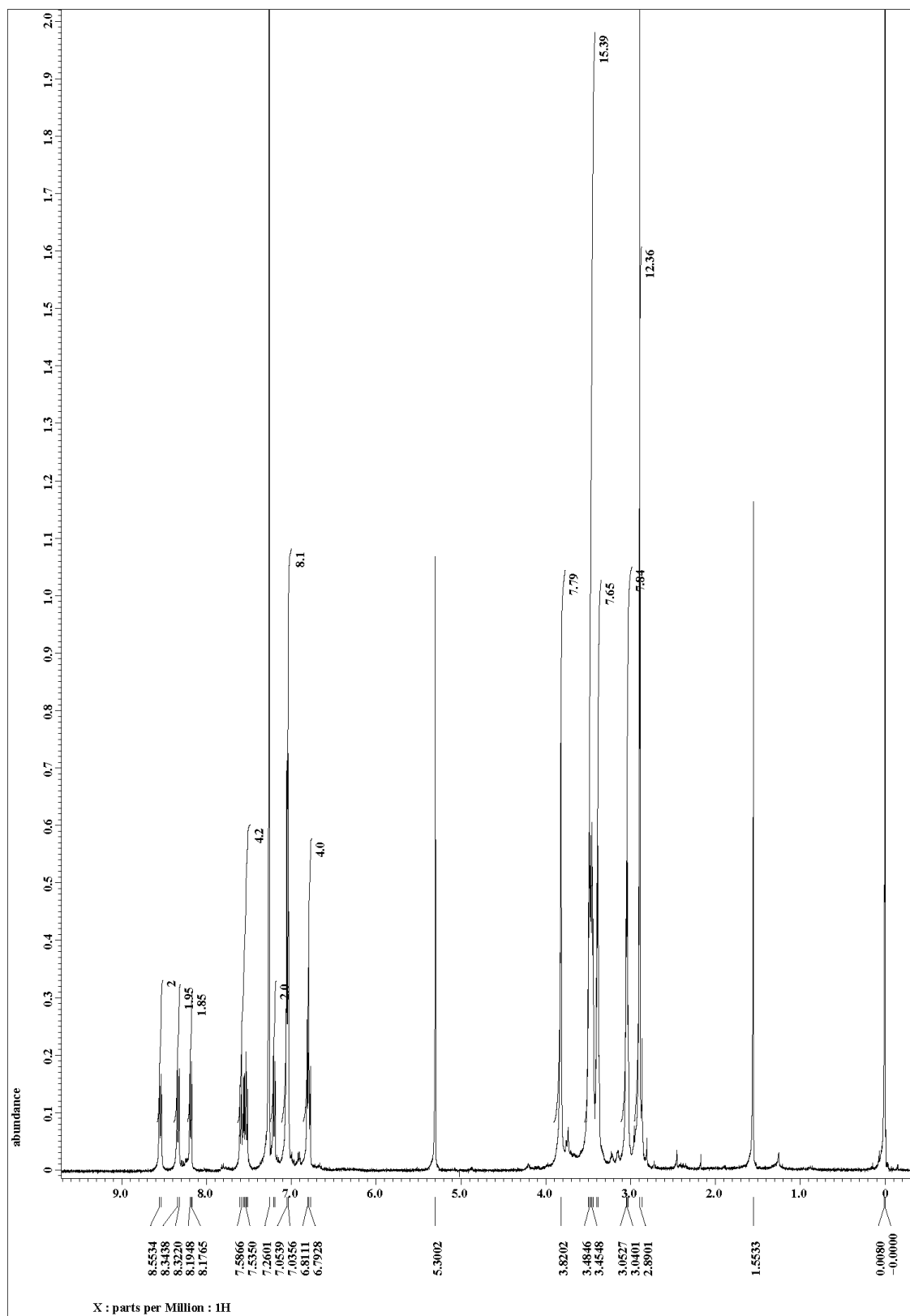
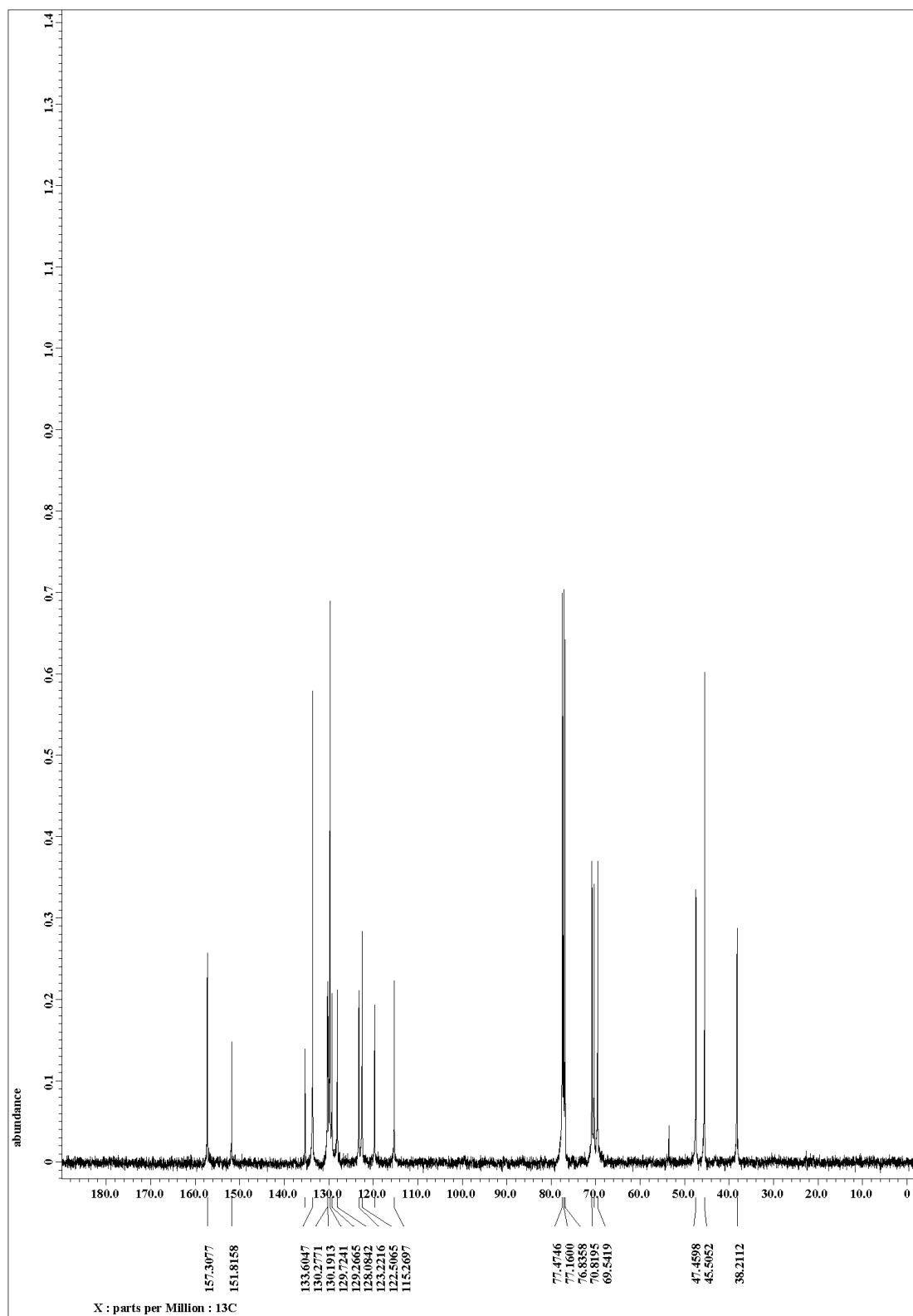


Fig. S4 Reversibility **3** -Al³⁺ in lutidine buffer solution (pH = 6.0, 10 mM); [**3**] = 10 μ M, [Al³⁺] = 0.1 mM, [EDTA] = [F⁻] = 0.2 mM, λ_{ex} = 328 nm.

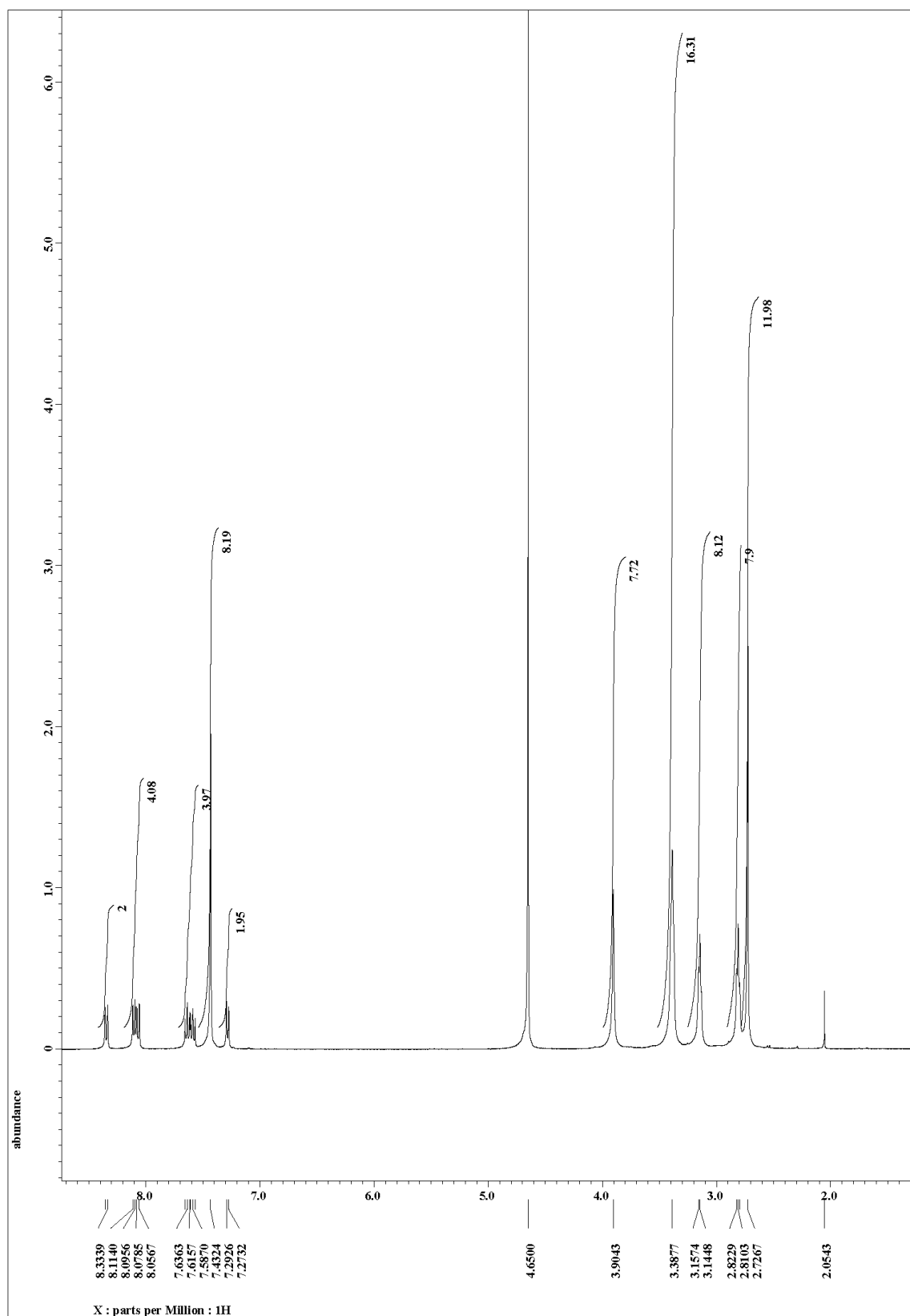
^1H NMR of **2** in CDCl_3



^{13}C NMR of **2** in CDCl_3



^1H NMR of **3** in D_2O



^{13}C NMR of **3** in D_2O

