SUPPLEMENTARY MATERIAL

A novel coumarin-based fluorescence chemosensor containing L-histidine for aluminium(III) ions in aqueous solution

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Fig.S1. The variation in fluorescence intensity with the pH of the Sensor 1 (10.0 µM) in the presence of Al³⁺ (1.5 equiv.) at $\lambda_{ex} = 334$nm.

Fig.S2. Compound 1+Al³⁺ EI-MS (m/z)
Fig. S3. 8-Formyl-7-hydroxy-4-methylcoumarin $^1$H-NMR (CDCl$_3$, 400MHz)

Fig. S4. Compound 1+Al$^{3+}$ $^1$H-NMR (D$_2$O, 600MHz)
Fig. S5. Compound 1 FT-IR (KBr, cm$^{-1}$)