Supporting information

Design and synthesize a chemosensor for the detection of Al^{3+} based on ESIPT

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Fig. S1 The $^1$H NMR of ethyl 2-methyl quinoline-4-carboxylate
Fig. S2 The $^1$H NMR of 2-methyl quinoline-4-carboxylic acid hydrazide.
Fig. S3 The $^1$H NMR of HL.
Fig. S4 The ESI-MS spectra of HL.
Fig. S5 The ESI-MS spectra of HL and Al$^{3+}$.
Fig. S6 $^1$H NMR titration, Al$^{3+}$ (1.0 equiv.) was added to the DMSO-d$_6$ solution of HL.

Fig. S7 The IR spectra of HL.
Fig. S8 The IR spectra of HL and Al$^{3+}$. 
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