Electronic Supplementary Material (ESI) for Analytical Methods.

Supplementary Materials

A novel isophorone-based fluorescent probe recognizing Al^{3+} and its bioimaging in plants

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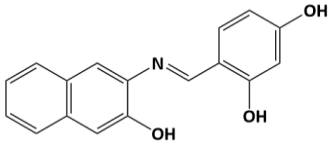
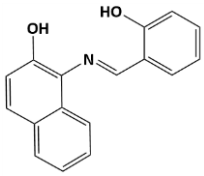
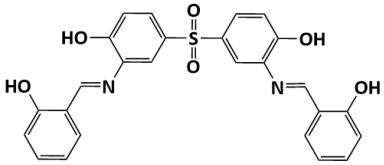
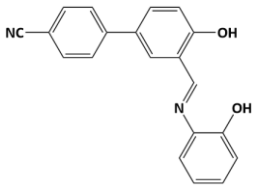
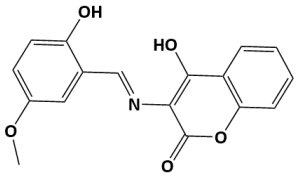
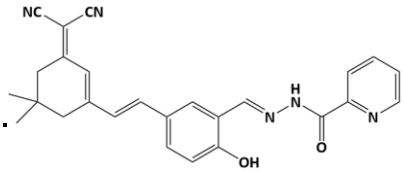
Table S1 Comparison of previously reported Al^{3+} probes with functional groups similar to ***YT-Al.***

Ref.	Porbes	Detection Medium	LOD	Maximum emission wavelength	Application
35		DMF/H_2O (9:1)	0.49 μM	390 nm	Test strips
36		MeOH/H_2O (1:1)	10μM	517 nm	Test strips Cell imaging
37		DMSO/H_2O (9:1)	0.22 μM	485 nm	Water sample
38		MeCN/H_2O (1:1)	1.37 μM	516 nm	No report
39		EtOH/H_2O (9:1)	1.62 μM	510 nm	Cell imaging
This work		DMSO/H_20(1:1)	0.22 μM	625 nm	Water sample Plant imaging

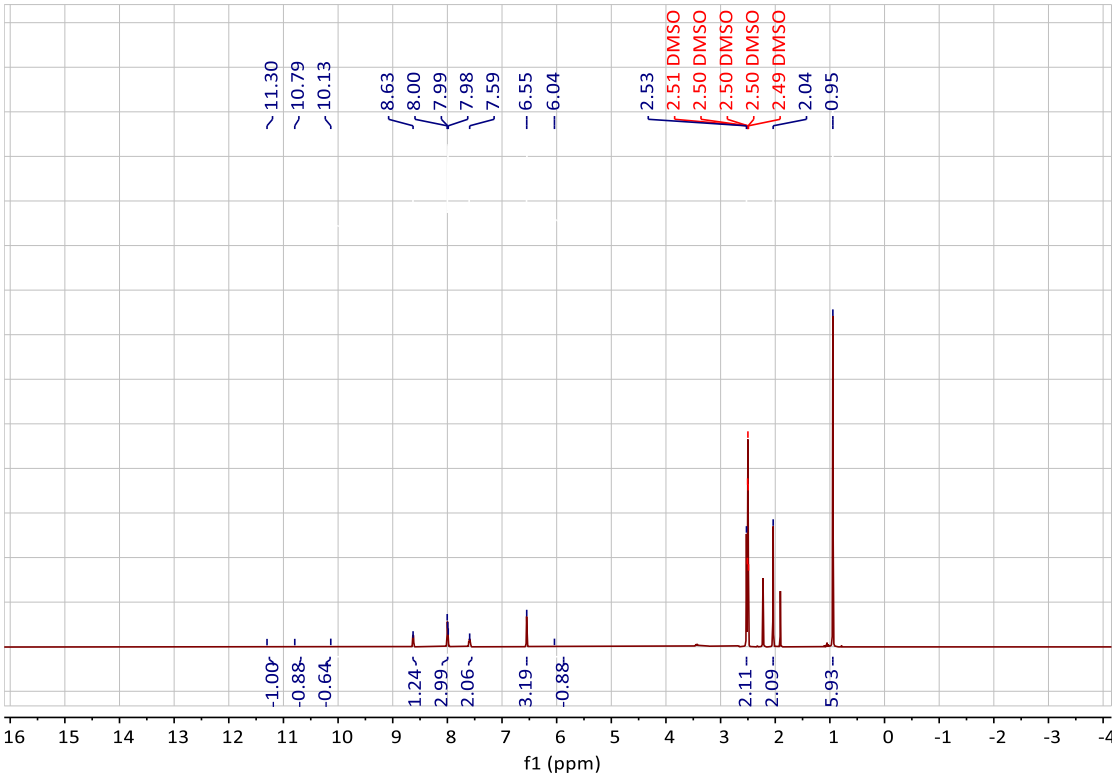


Fig. S1. ^{1}H NMR of probe ***YT-Al*** in DMSO-d_6.

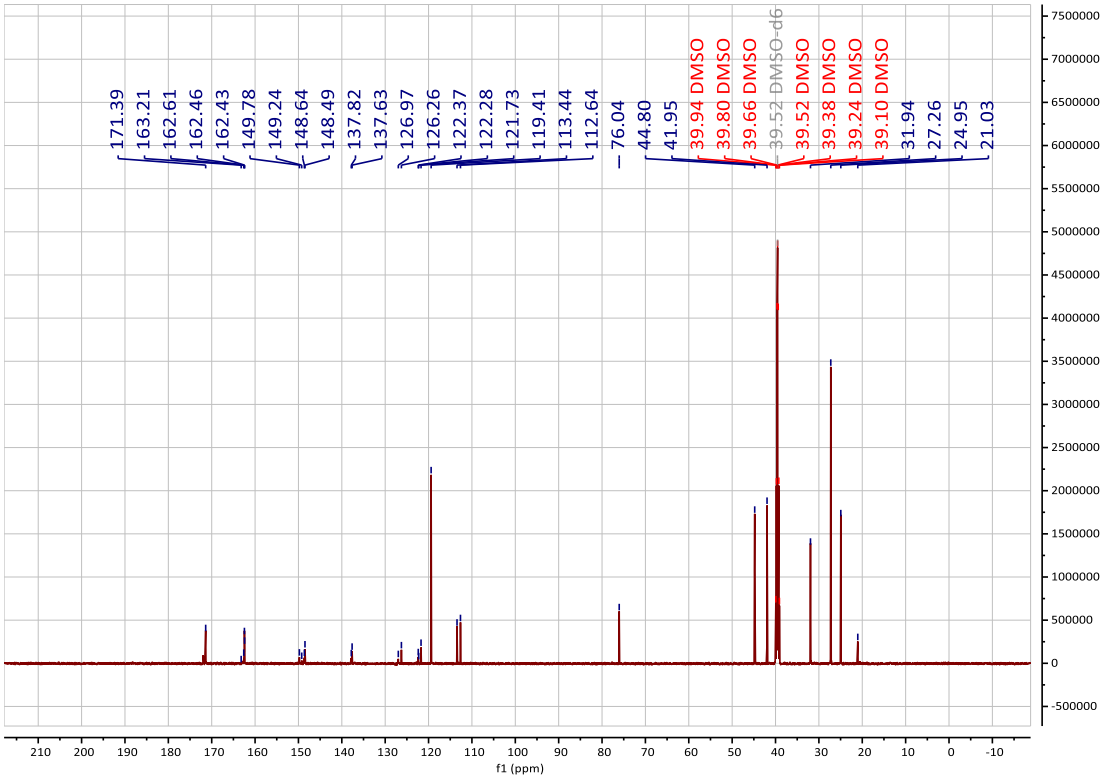


Fig. S2. ^{13}C NMR of probe ***YT-Al*** in DMSO-d_6.

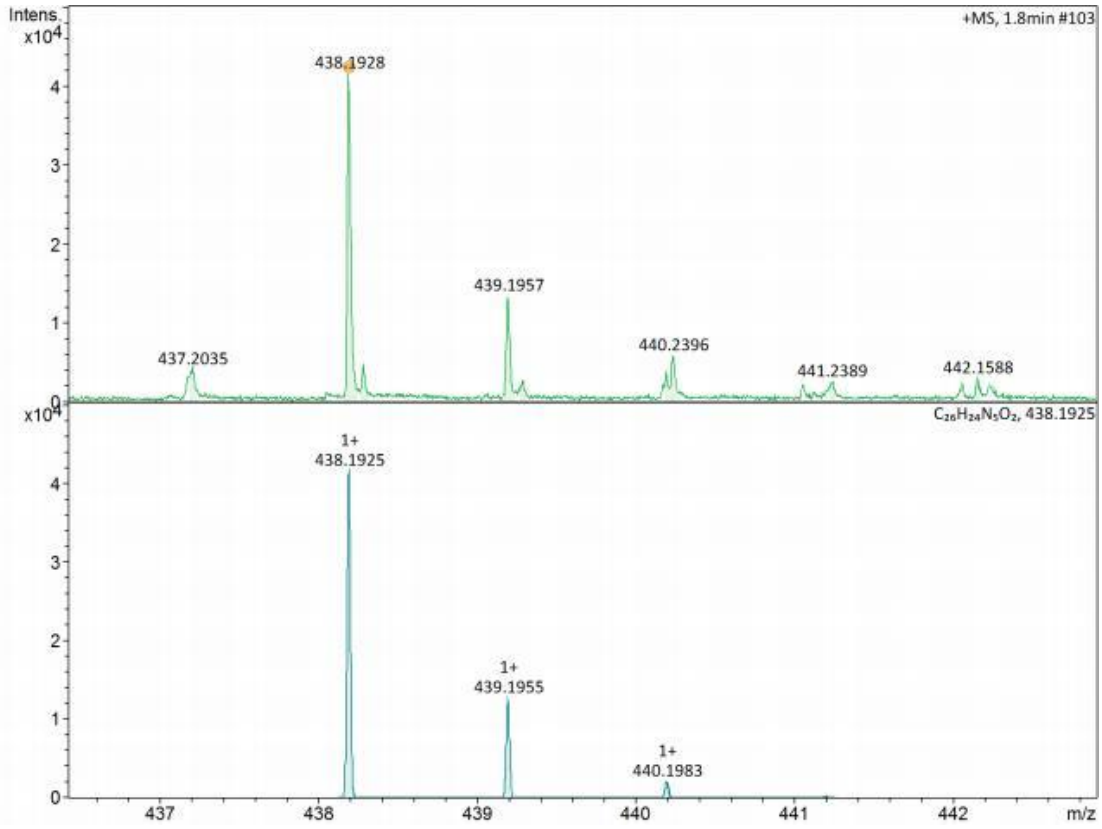


Fig. S3. HR-MS of probe ***YT-Al*** in CH_3CN.