

## A cryptand-type aluminum tris(salophen) complex:

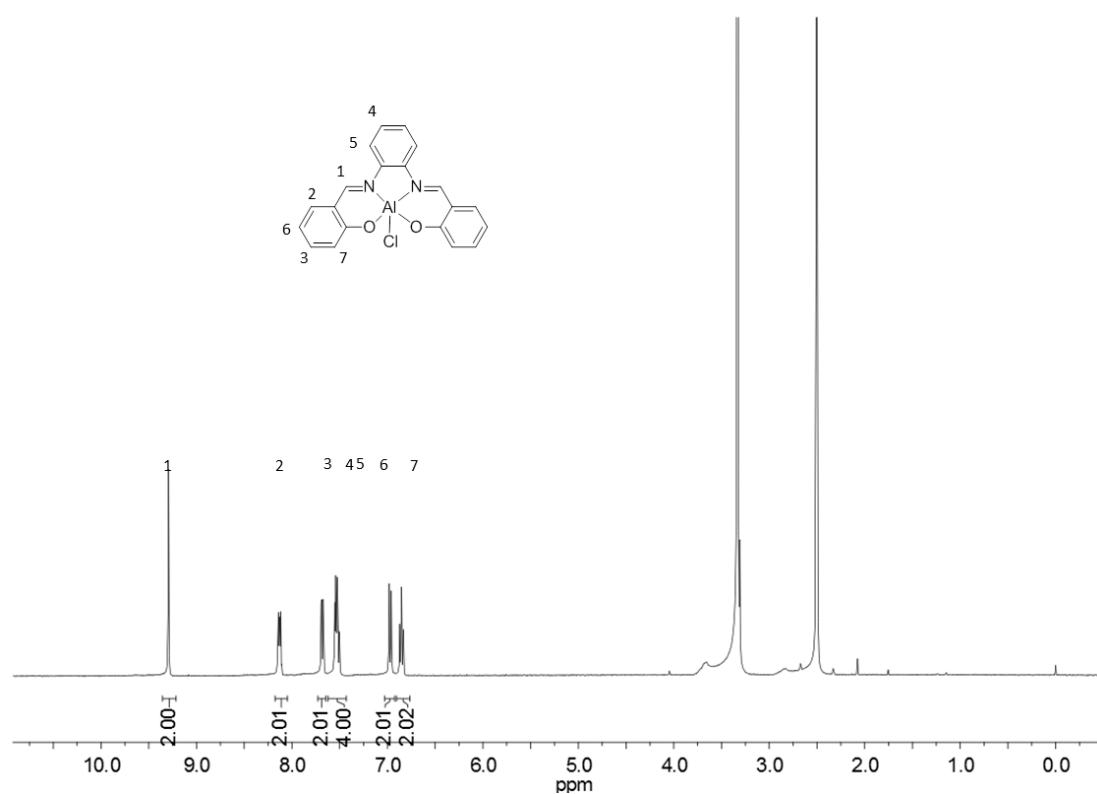
### Synthesis, characterization, and cell imaging application

#### 1. $^1\text{H}$ -NMR Spectra and HR-ESI MS spectra

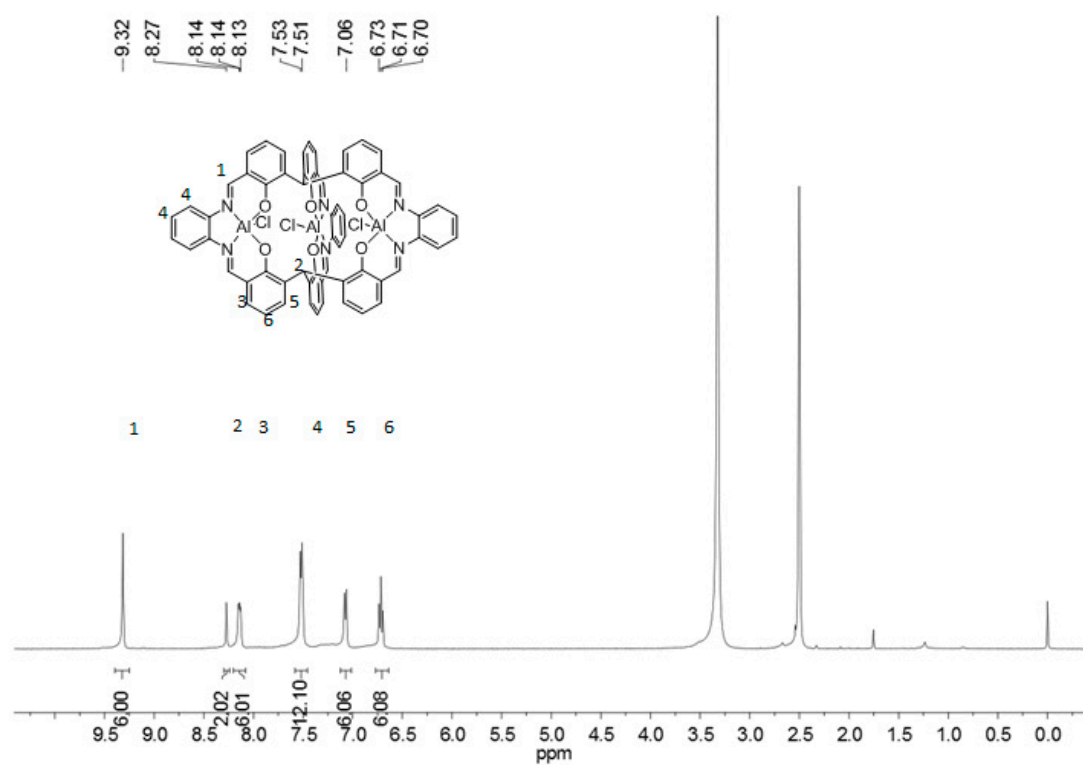
##### 1.1 $^1\text{H}$ -NMR Spectra

Unless specially mentioned, the  $^1\text{H}$  NMR spectra were recorded in DMSO- $d_6$  and the peaks for residue solvent (DMSO,  $\delta = 2.50$  ppm), water ( $\delta = 3.33$  ppm) and TMS ( $\delta = 0$  ppm) were omitted for clarity.

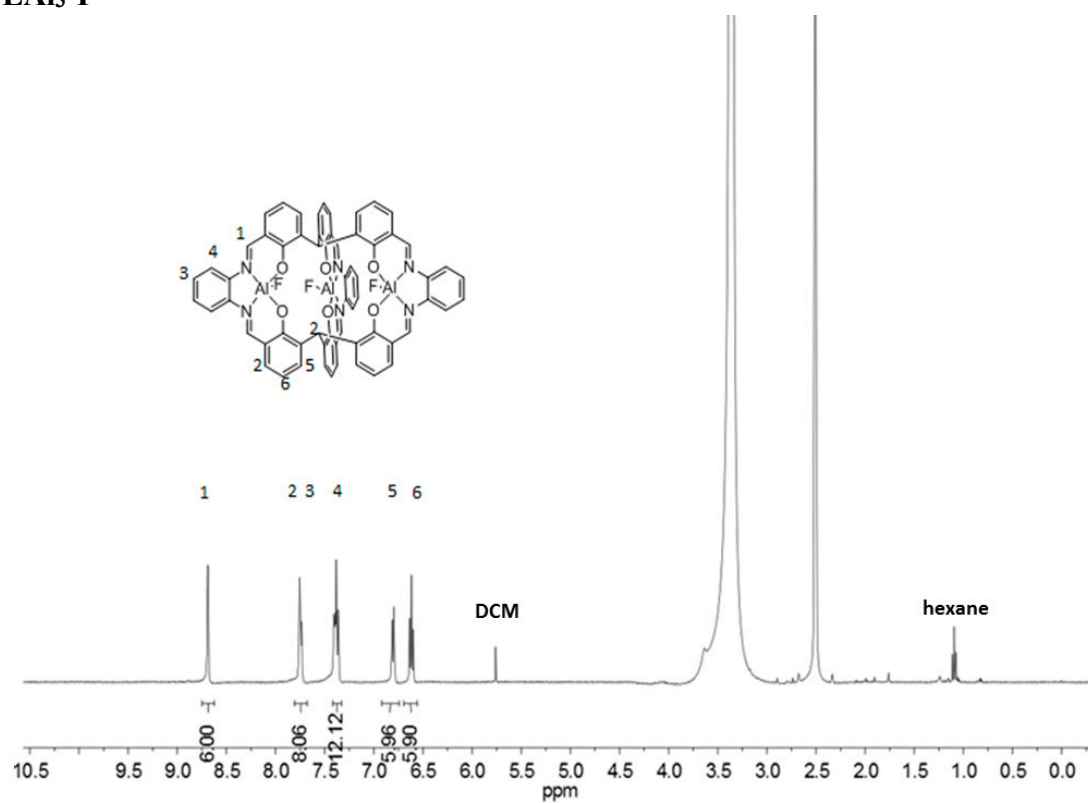
**LAl**



**LAl<sub>3</sub>**

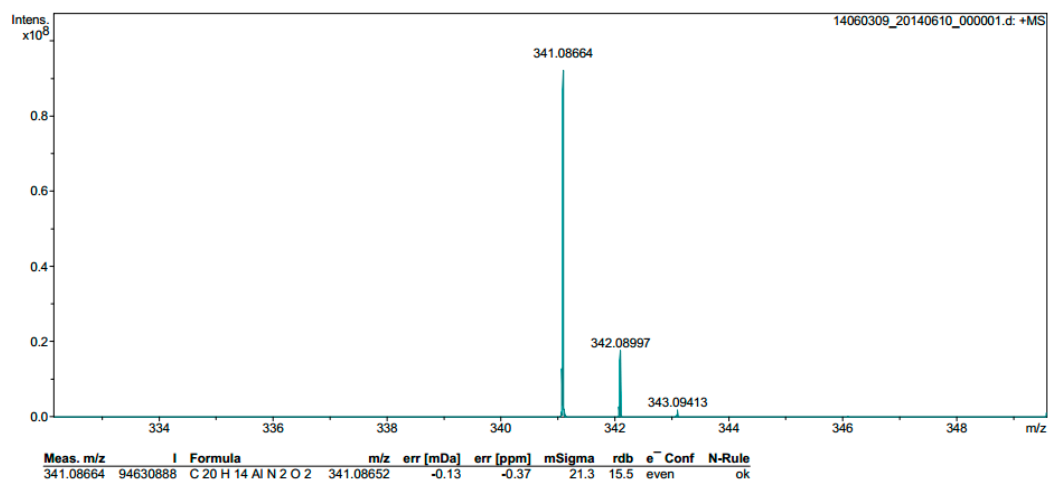


**LAI<sub>3</sub>-F**

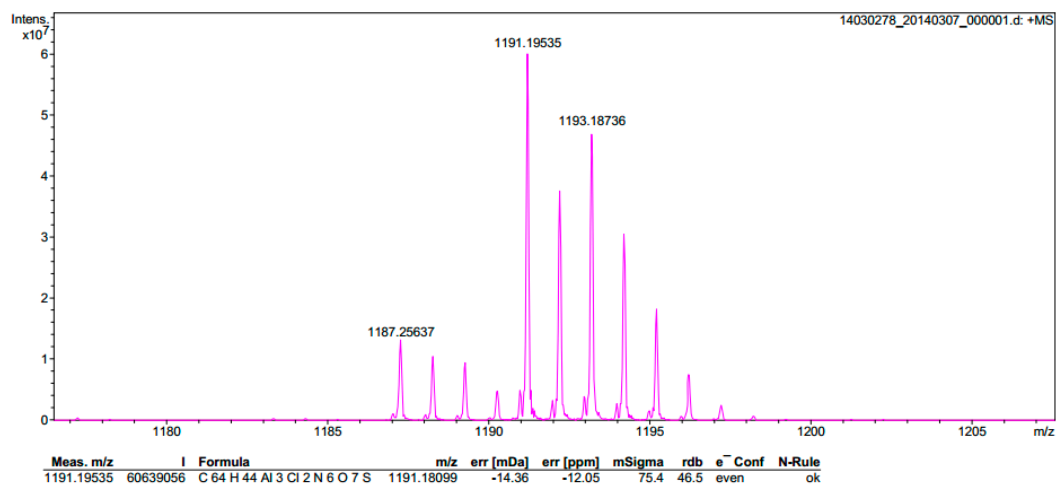


## 1.2 HR-ESI MS Spectra

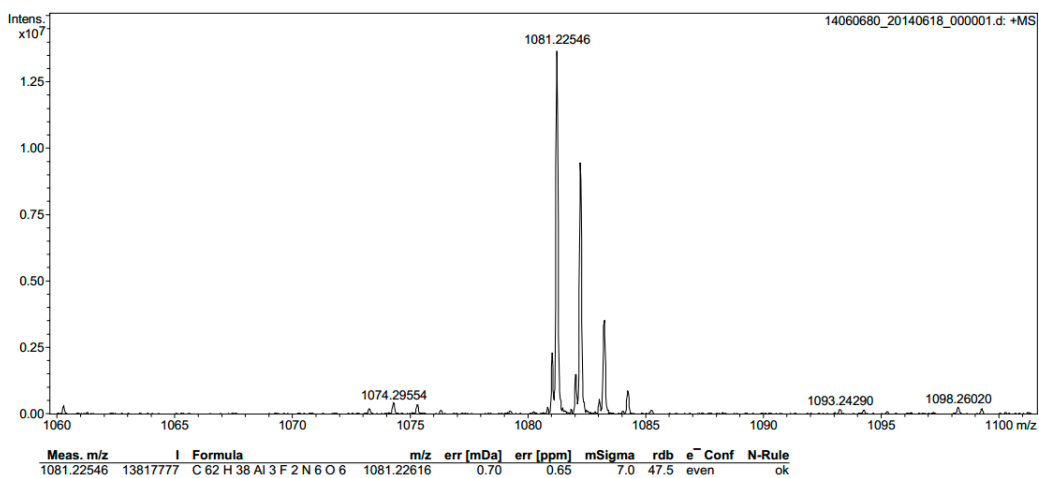
### LAI



### LAI<sub>3</sub>



### LAI<sub>3</sub>-F



1.3 Table S1. Crystal data and structure refinement parameters

complex	<b>LAl<sub>3</sub>-F</b>
molecular formula	C65 H47 Al3 F3 N6 O9
formula wt. (g mol <sup>-1</sup> )	1194.02
temperature (K)	296(2)
radiation ( $\lambda$ , Å)	0.71073
crystal system	Triclinic
space group	<i>P</i> -1
<i>a</i> (Å)	13.060(6)
<i>b</i> (Å)	19.920(10)
<i>c</i> (Å)	21.490(11)
$\alpha$ (°)	65.028(6)
$\beta$ (°)	87.853(7)
$\gamma$ (°)	89.408(7)
volume (Å <sup>3</sup> )	5064(4)
<i>Z</i>	2
$\rho_{\text{calcd}}$ (mg m <sup>-3</sup> )	0.783
$\mu$ (mm <sup>-1</sup> )	0.080
F(000)	1234
crystal size (mm <sup>3</sup> )	0.42×0.4× 0.2
theta range (°)	1.834 ~ 24.858
reflections collected	26408
completeness to theta = 24.86°	97.9%
independent reflections	17212 [R(int) = 0.0424]
goodness-of-fit on F <sup>2</sup>	1.014
final R indices[R > 2 $\sigma$ (I)]	R <sub>1</sub> = 0.0556, wR <sub>2</sub> = 0.1471
R indices (all data)	R <sub>1</sub> = 0.0991, wR <sub>2</sub> = 0.1635
largest diff. peak and hole (e Å <sup>-3</sup> )	0.460 and -0.292