

**A high selectivity fluorescent chemosensor for  
cyanide anion based on a chalcone derivatives in  
the present of iron (III) ion, and its capacity for live  
cell imaging in mixed aqueous system**

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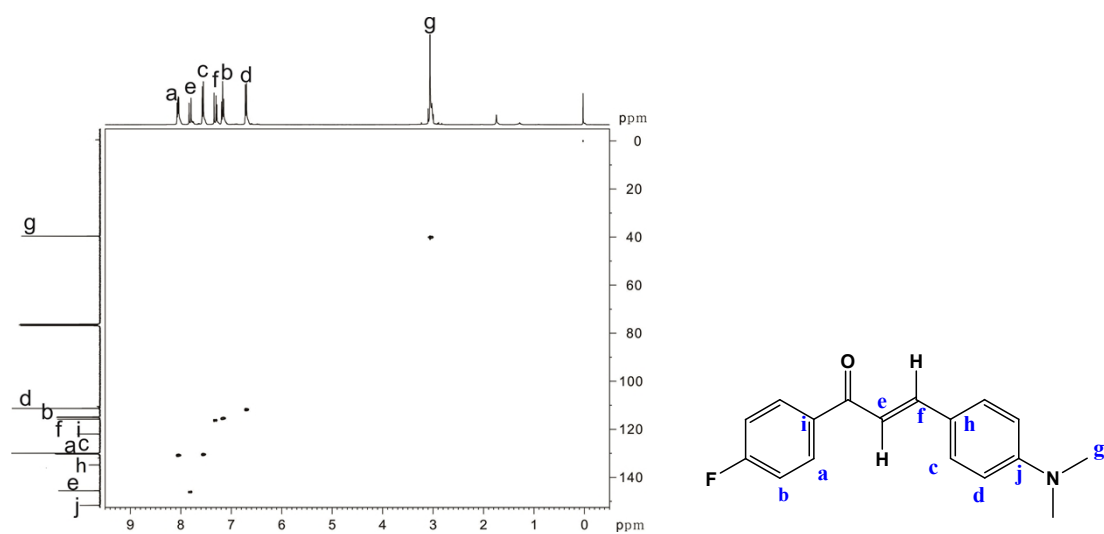
**Supplementary data**

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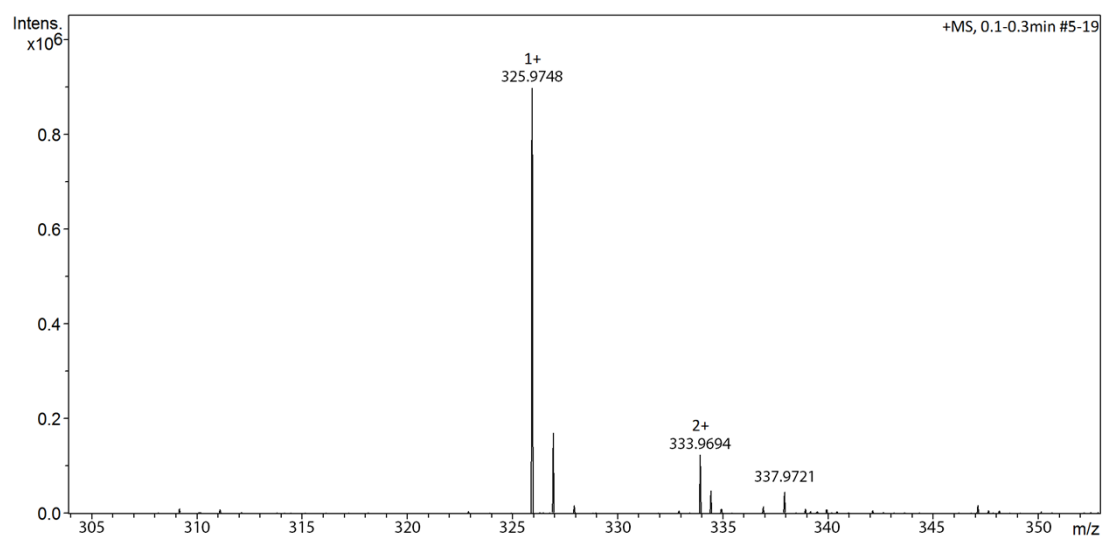
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1. **Figure S1**



**Figure S1** The 2D-NMR (HSQC) of **1** (0.309M) in  $\text{CD}_3\text{CN-}d_6$ .

2. **Figure S2**



**Figure S2** The HRMS of **1-Fe<sup>3+</sup>**.