

## Supporting Information

### **Synthesis, antitumor, optical properties and biological imaging of the rare earth complexes with curcumin and pyridine**

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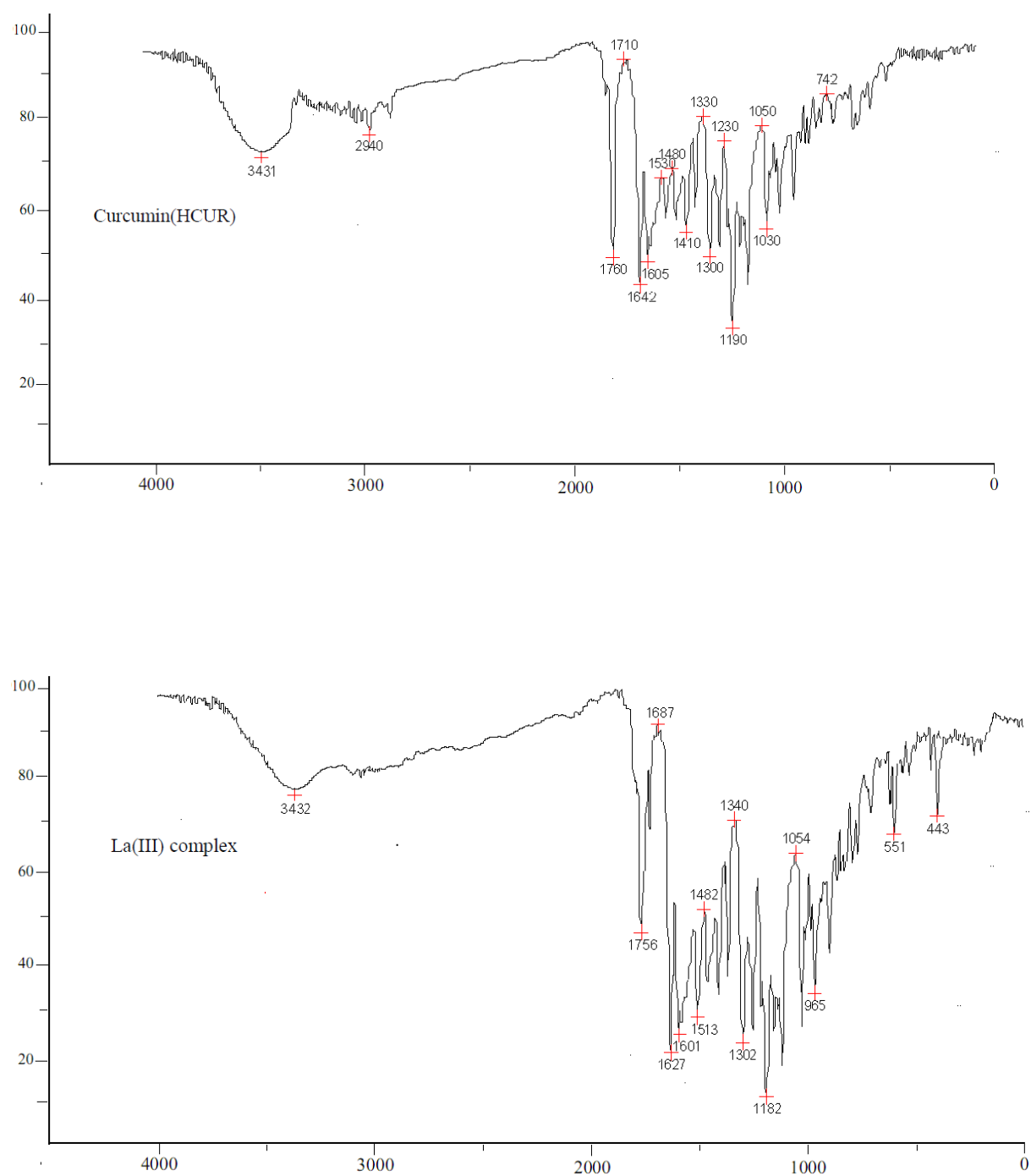
Fax: (+86) 0551-5169291, E-mail: [zshuangsheng@126.com](mailto:zshuangsheng@126.com)

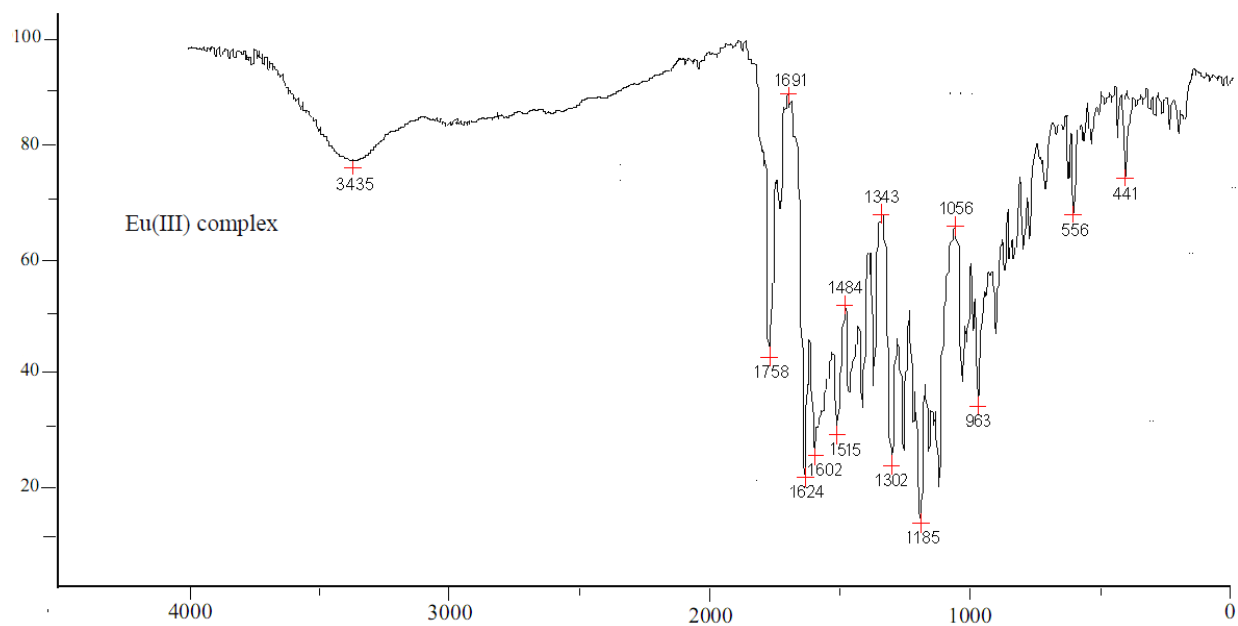
#### 1. Spectrometric characterization

- 1.1 FT-IR spectra of HCUR, La(III) complex and Eu(III) complex ..... Fig. S1
- 1.2 <sup>1</sup>H NMR spectra of HCUR, La(III) complex and Eu(III) complex ..... Fig. S2
- 1.3 MS spectra of HCUR, La(III) complex and Eu(III) complex ..... Fig. S3
- 2 TG analysis of La(III) complex(a) and Eu(III) complex(b) ..... Fig. S4
- 3 The cytotoxicity of HCUR, La(III) complex and Eu(III) complex ..... Fig. S5

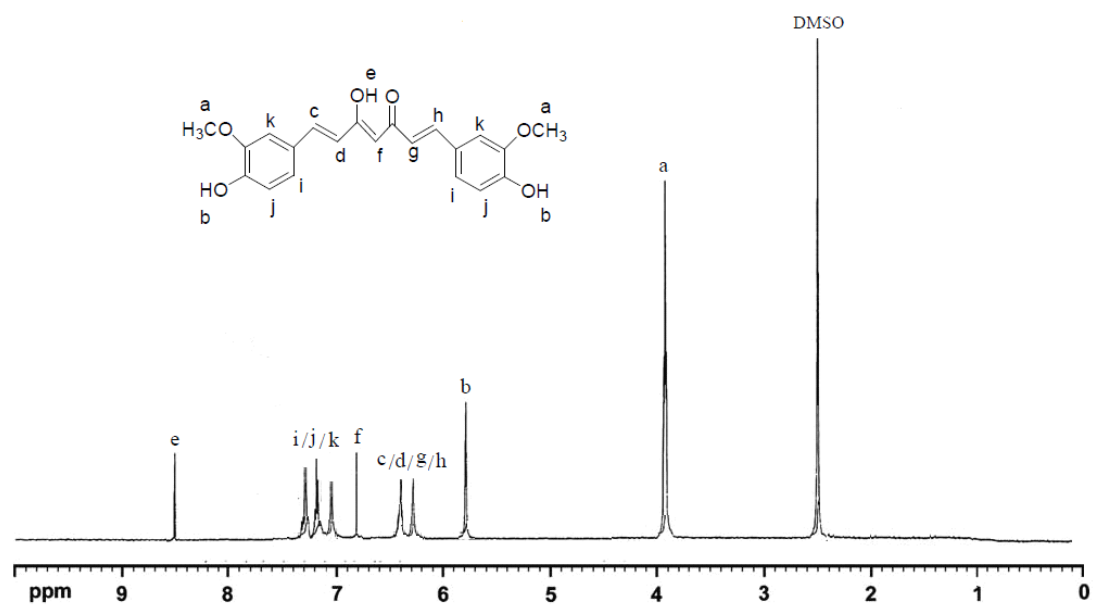
## 1. Spectrometric characterization

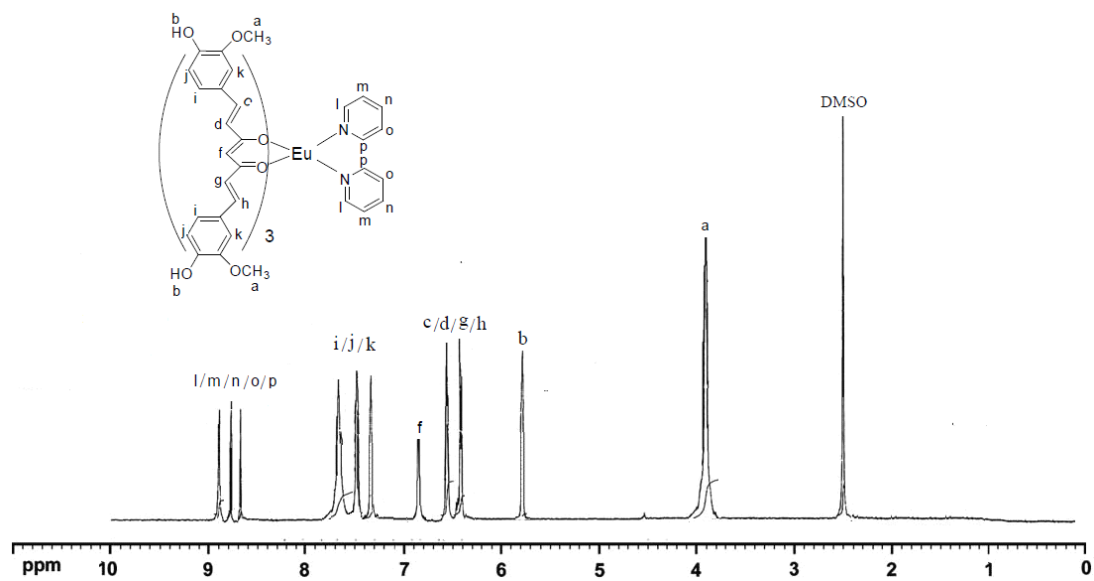
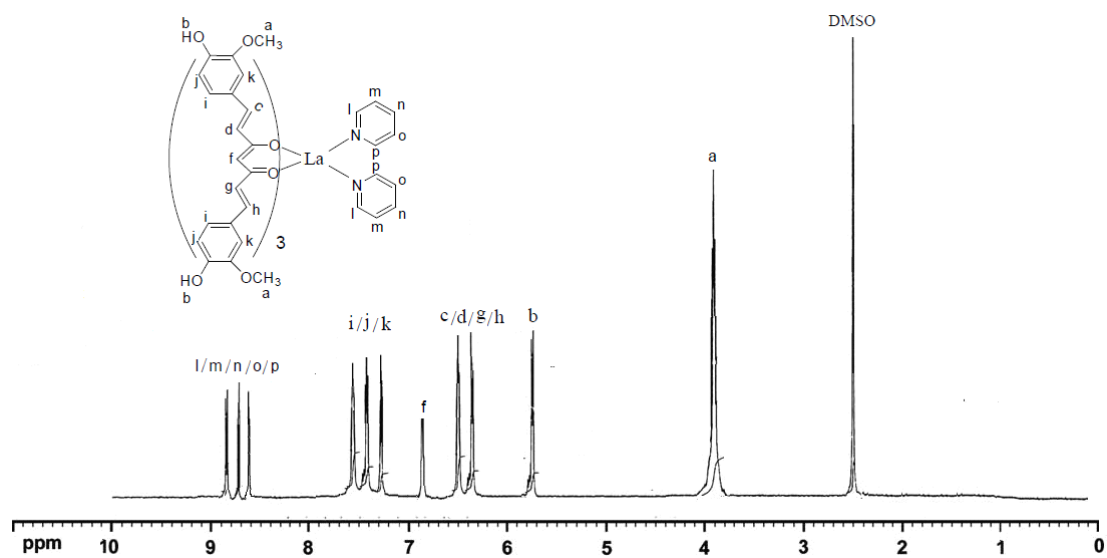
**Fig. S1** FT-IR spectra of HCUR, La(III) complex and Eu(III) complex



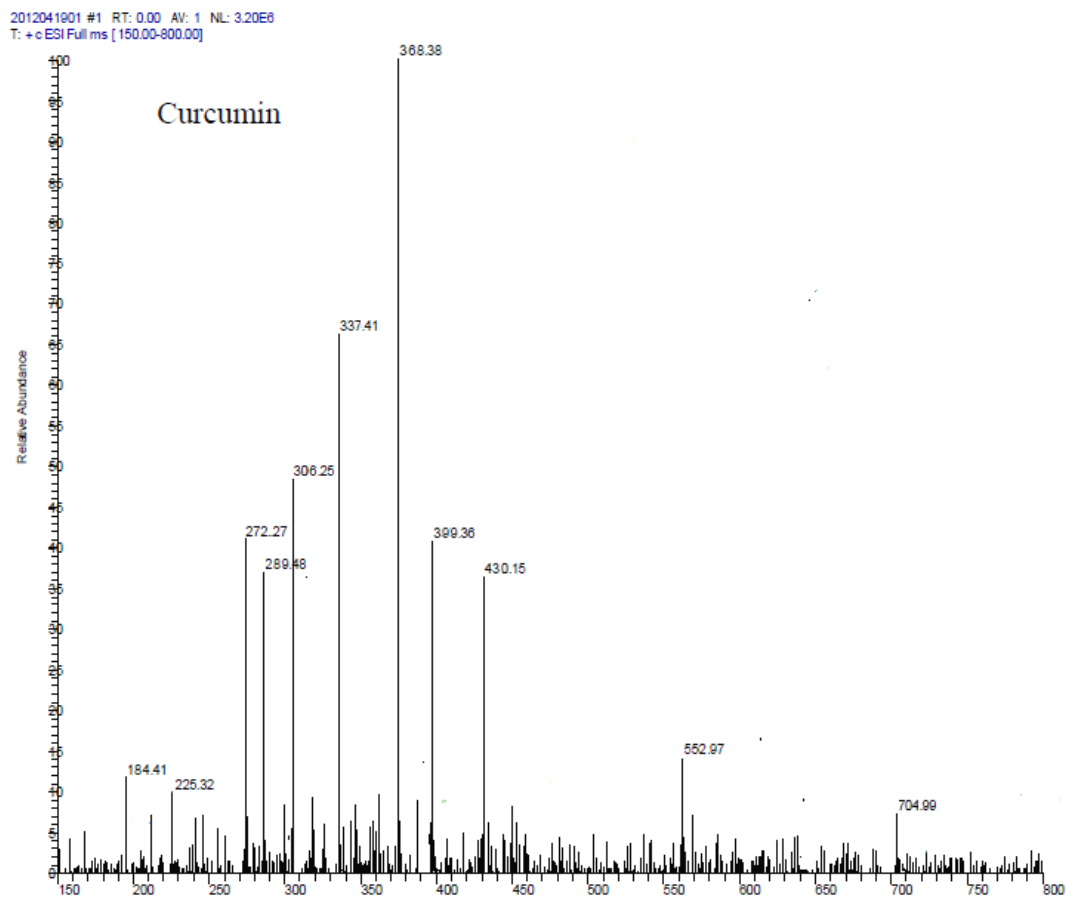


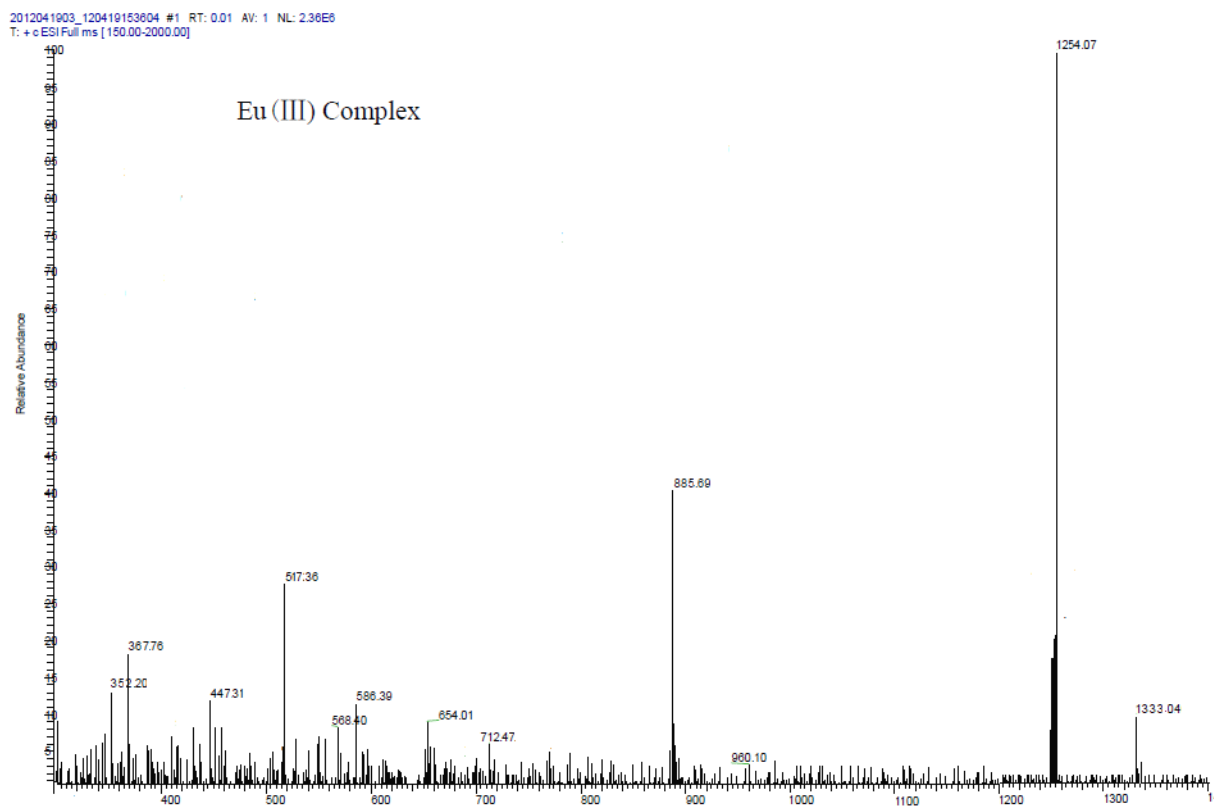
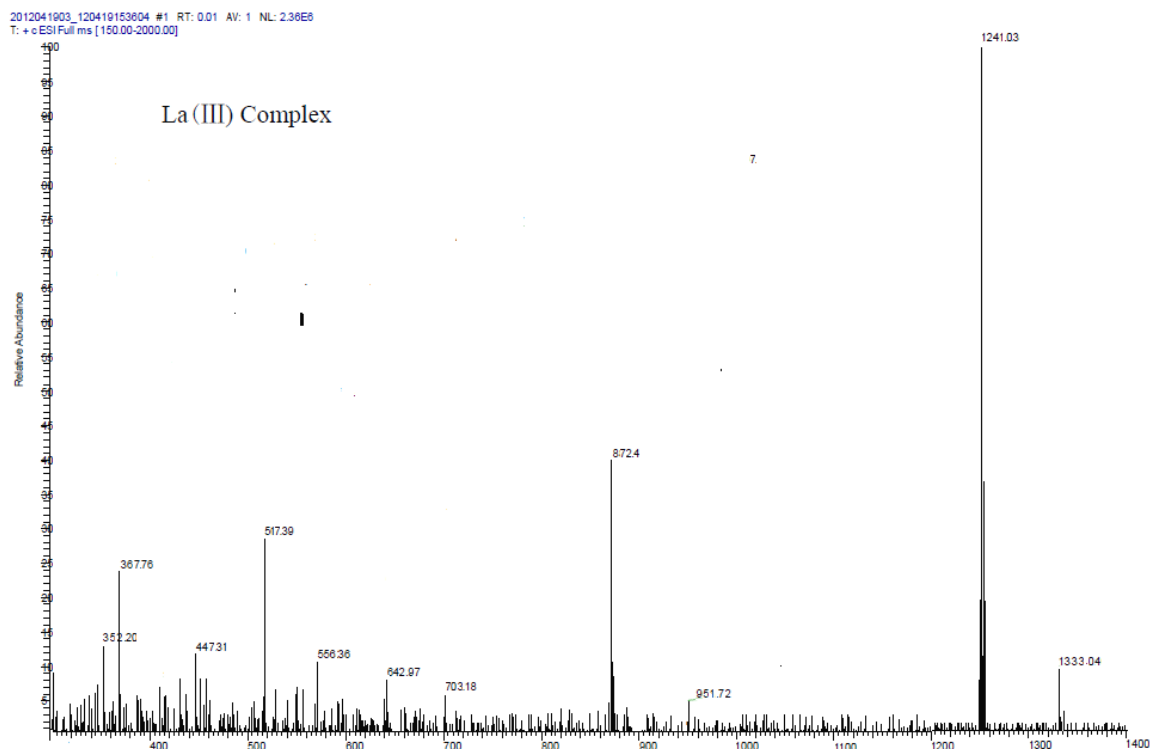
**Fig. S2** <sup>1</sup>H NMR spectra of HCUR, La(III) complex and Eu(III) complex



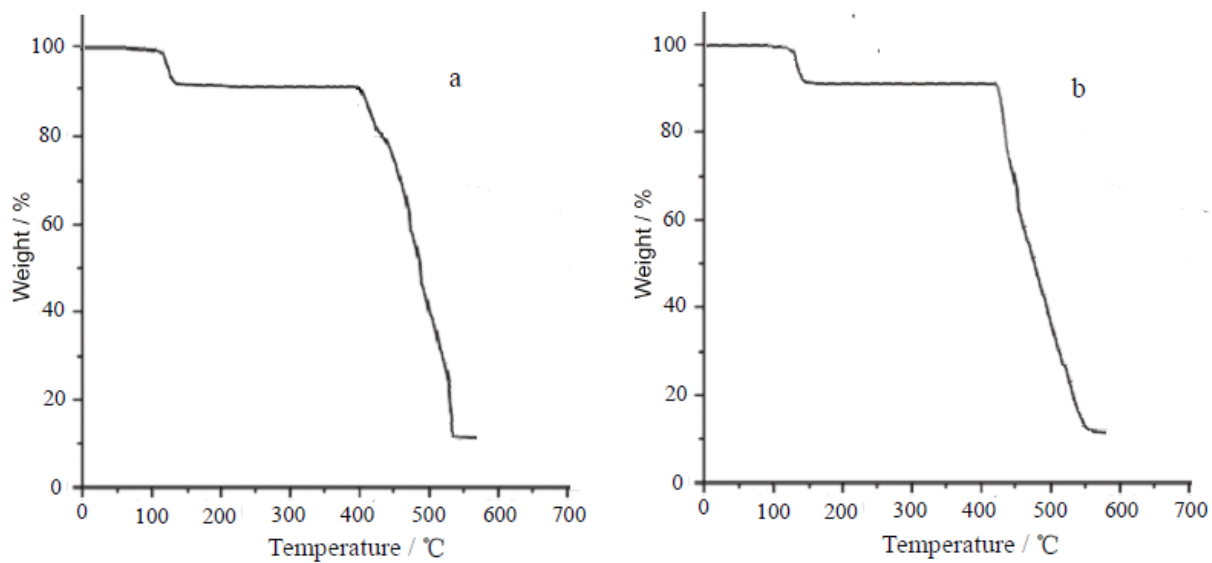


**Fig. S3** MS spectra of HCUR, La(III) complex and Eu(III) complex





**Fig. S4** TG analysis of La(III) complex(a) and Eu(III) complex(b)



**Fig. S5** The cytotoxicity of HCUR, Eu(III) complex and La(III) complex

