

## Supporting Information

### **Amphiphilic irinotecan-melampomagnolide B conjugate nanoparticles for cancer chemotherapy**

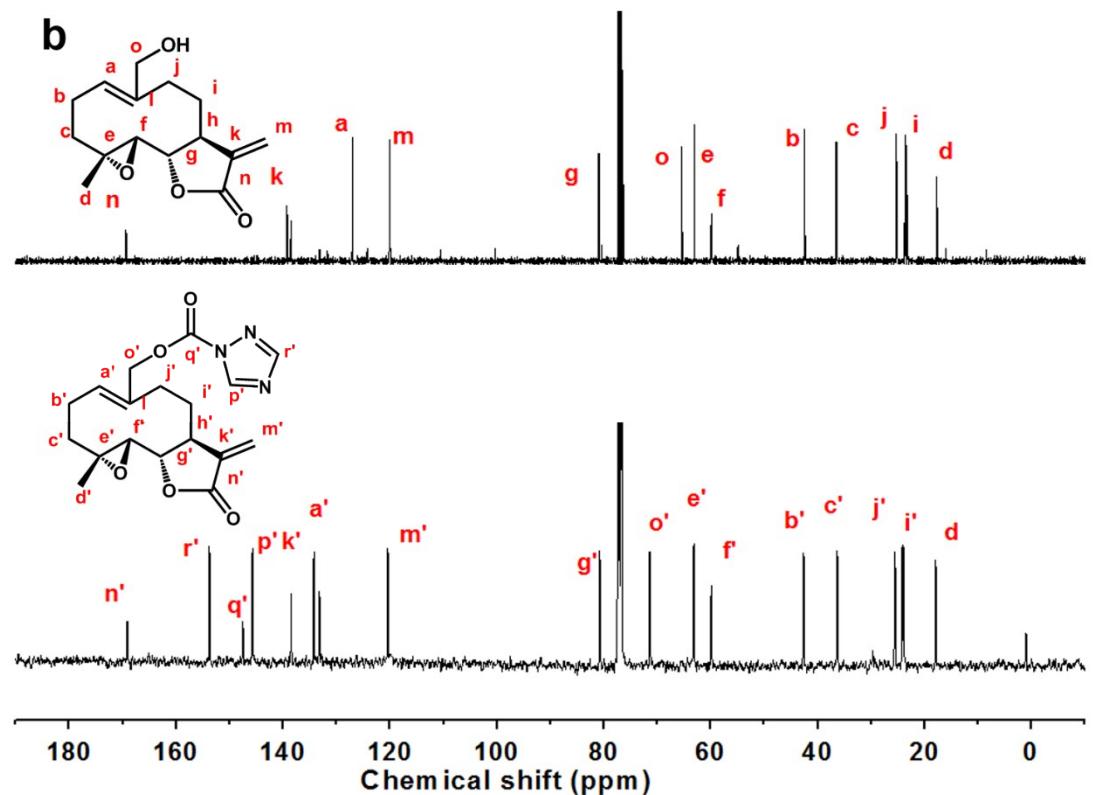
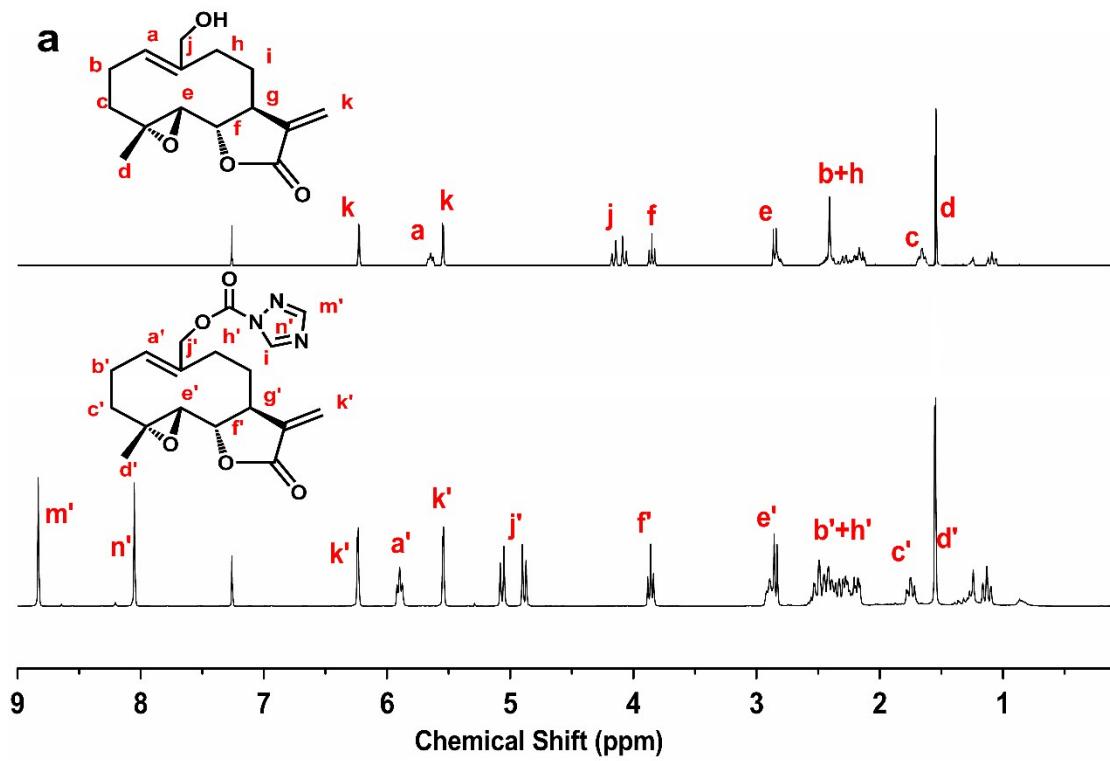
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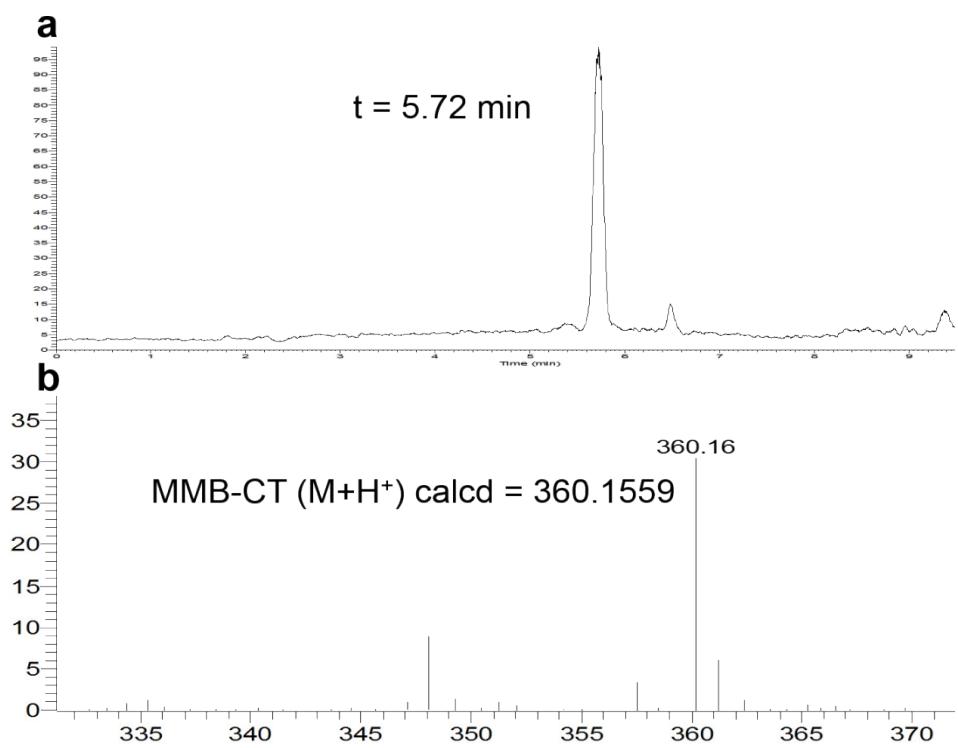
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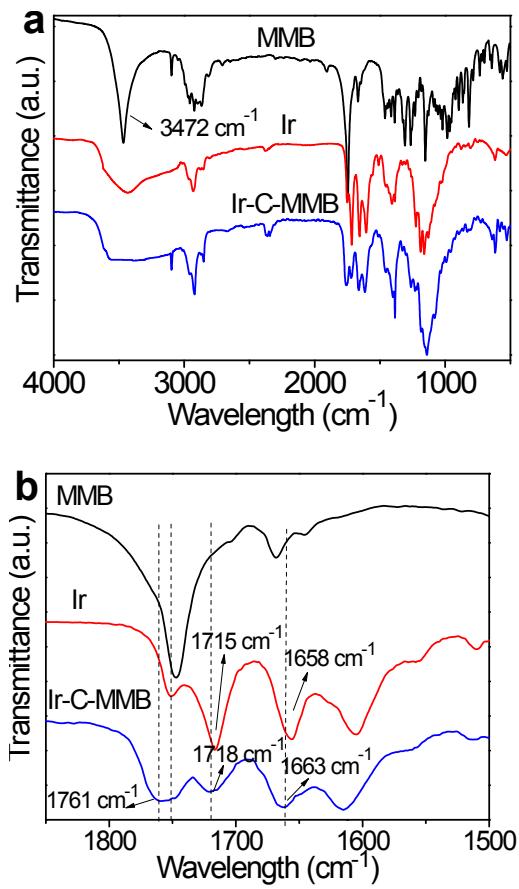
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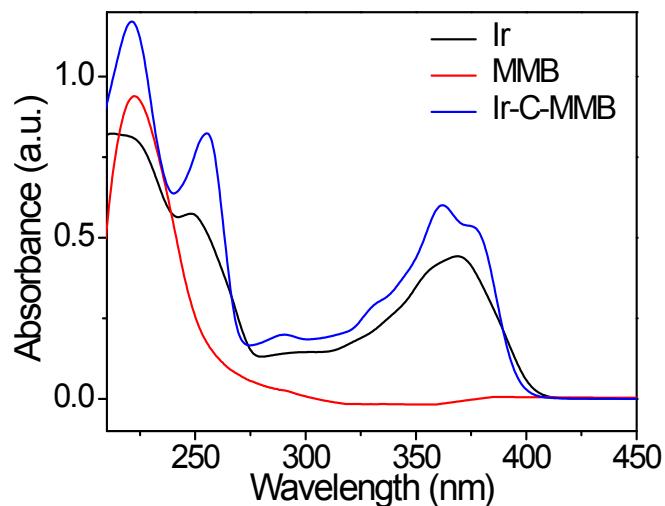
**Fig. S1** (a)  $^1\text{H}$  NMR and (b)  $^{13}\text{C}$  NMR spectra of MMB and MMB-CT in  $\text{CDCl}_3$ .



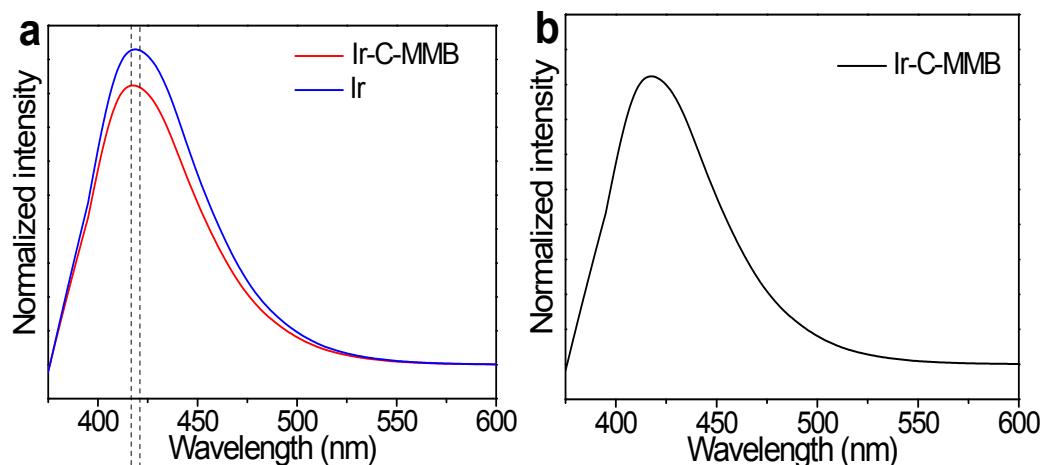
**Fig. S2** (a) LC profile and (b) mass spectrum of MMB-CT.



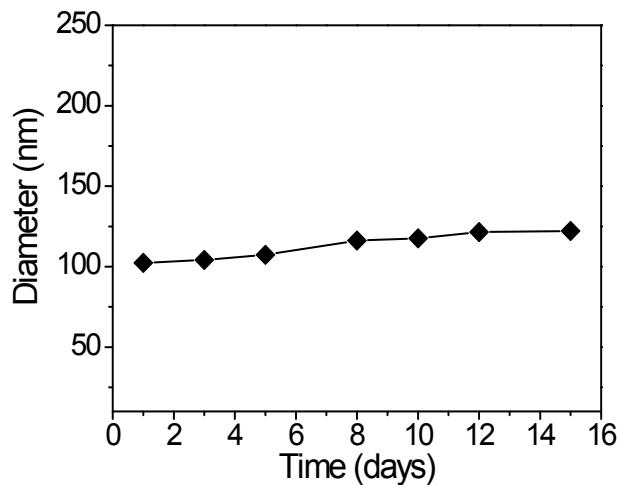
**Fig. S3** (a) FTIR spectra of MMB, Ir and Ir-C-MMB. (b) A partial FTIR spectra of MMB, Ir and Ir-C-MMB in the range of  $1500 \sim 1850 \text{ cm}^{-1}$ .



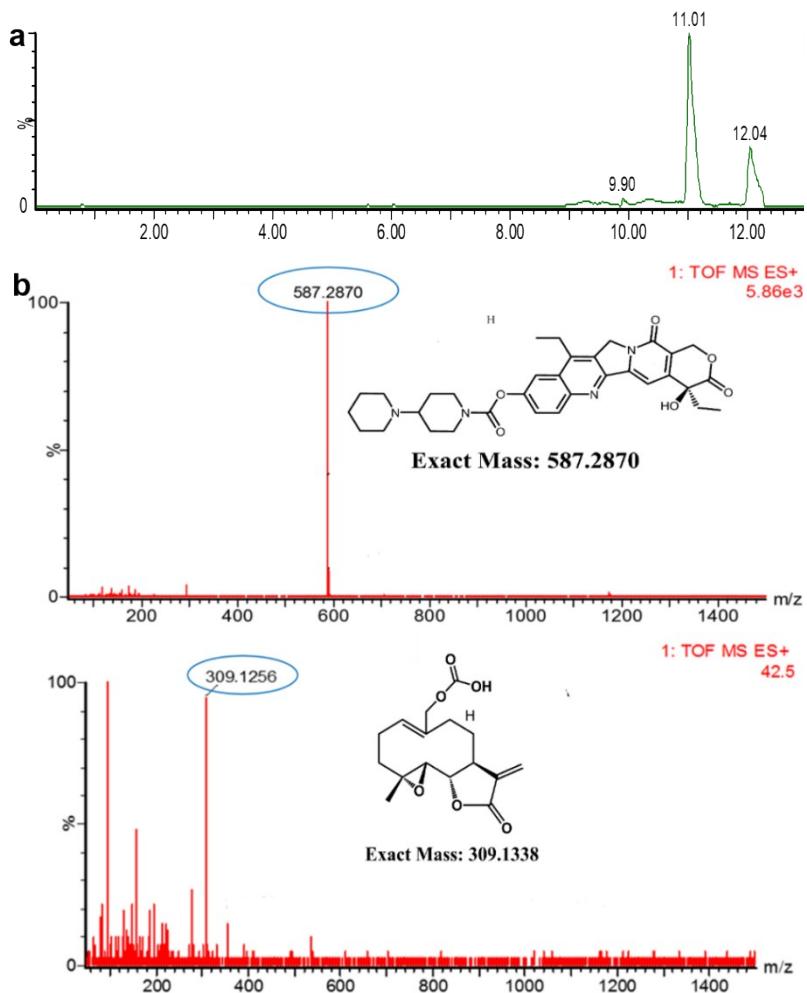
**Fig. S4** UV-Vis spectra of Ir, MMB and Ir-C-MMB.



**Fig. S5** (a) Fluorescence spectra of Ir ( $\lambda_{\text{ex}} = 363 \text{ nm}$ ,  $\lambda_{\text{em}} = 420 \text{ nm}$ ) and Ir-C-MMB ( $\lambda_{\text{ex}} = 360 \text{ nm}$ ,  $\lambda_{\text{em}} = 416 \text{ nm}$ ) in acetonitrile. (b) Fluorescence spectra of Ir-C-MMB nanoparticles ( $\lambda_{\text{ex}} = 360 \text{ nm}$ ,  $\lambda_{\text{em}} = 416 \text{ nm}$ ).



**Fig. S6** The diameter changes of Ir-C-MMB nanoparticles vs the storage time.



**Fig. S7** (a) Total ion chromatography (TIC) of the cell extracts. (b) Extracted ion chromatography (EIC) of Ir ( $m/z = 587.2870$ ,  $(M+H^+)$ ) and MMB-COOH ( $m/z = 309.1338$ ,  $(M+H^+)$ ), respectively.