

Supporting Information

Multifunctional single-drug loaded nanoparticles for enhanced cancer treatment with low toxicity *in vivo*

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Contents

Scheme S1. Synthesis of Z-DMC-OXA(N₃)

Figure S1. IR spectra of Z-DMC-OXA(N₃)

Figure S2. ¹H NMR spectra of Z-DMC-OXA(N₃) (DMSO-d₆)

Figure S3. ESI-MS spectra of Z-DMC-OXA(N₃)

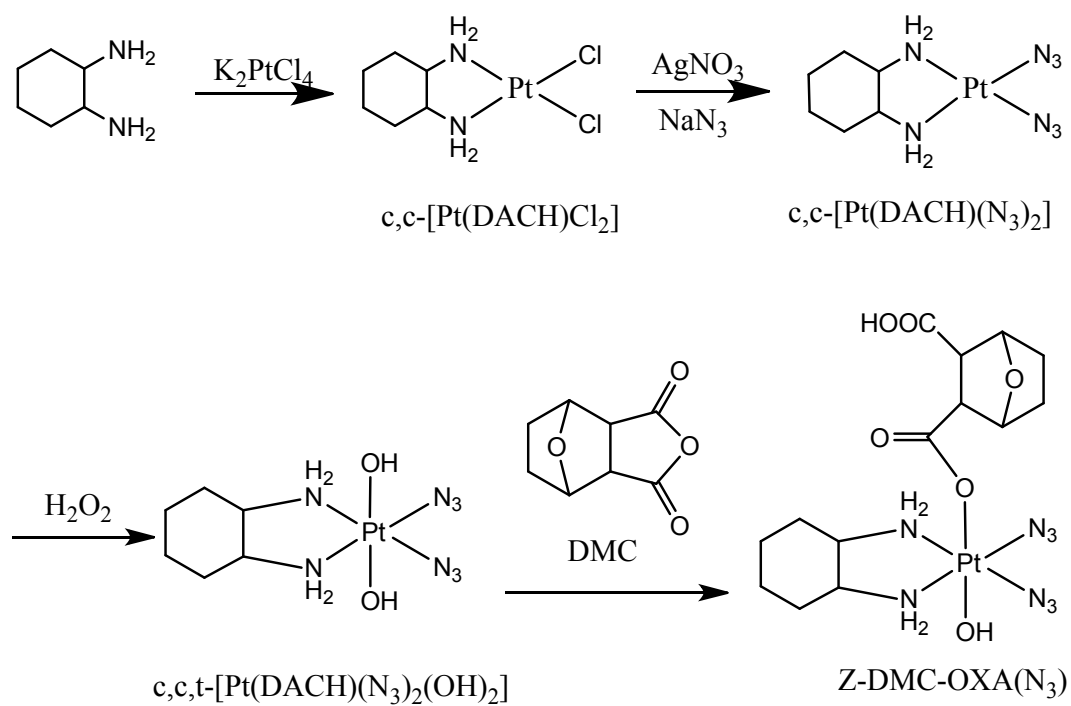
Scheme S2. Synthesis of P-Z-DMC-OXA(N₃)

Figure S4. ¹H NMR spectra of mPEG-b-P(LA-co-MPD) (CDCl₃)

Figure S5. Cell viability of HeLa cells without any drug in the presence of UVA irradiation.

Figure S6. The HeLa cell images under different drug treatment

Figure S7. TUNEL staining of H22 tumors from mice



Scheme S1. Synthesis of Z-DMC-OXA(N₃).

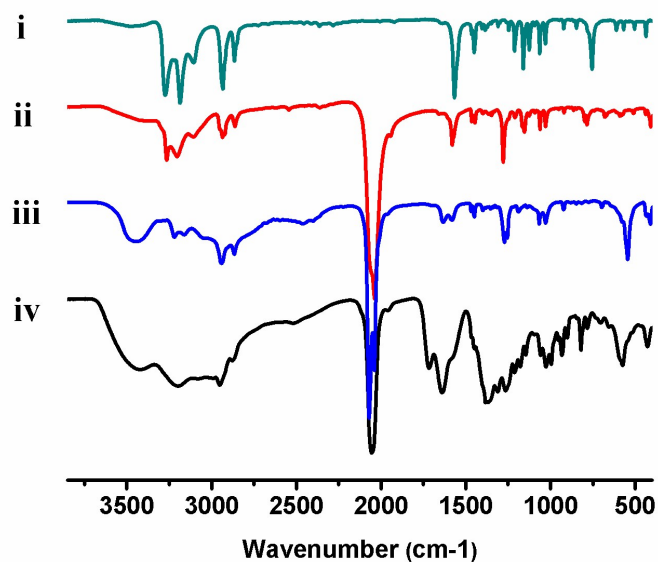


Fig. S1 IR spectra of $\text{c,c-[Pt(DACH)Cl}_2\text{]}$ (i), $\text{c,c-[Pt(DACH)(N}_3\text{)}_2\text{]}$ (ii), $\text{c,c,t-[Pt(DACH)(N}_3\text{)}_2\text{(OH)}_2\text{]}$ (iii) and Z-DMC-OXA(N₃) (iv).

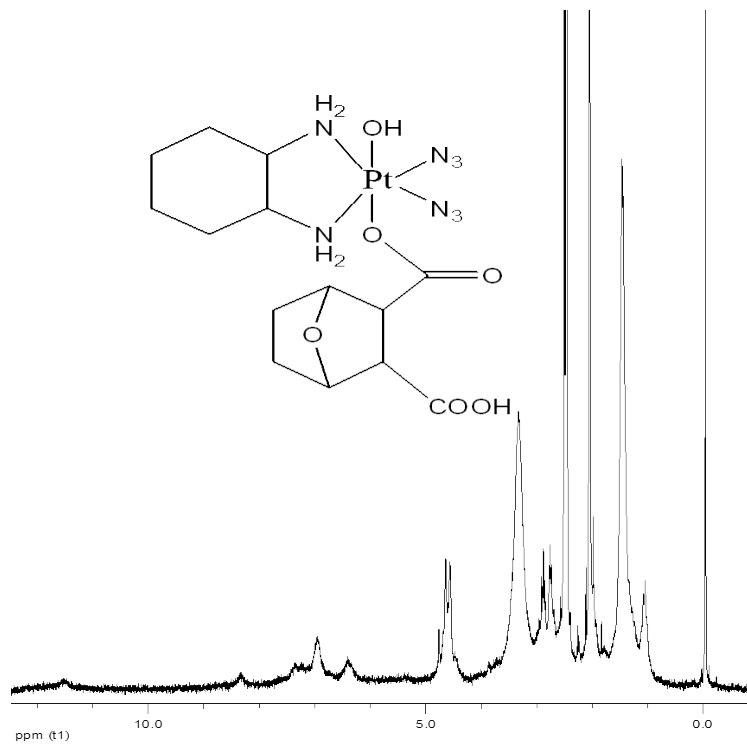
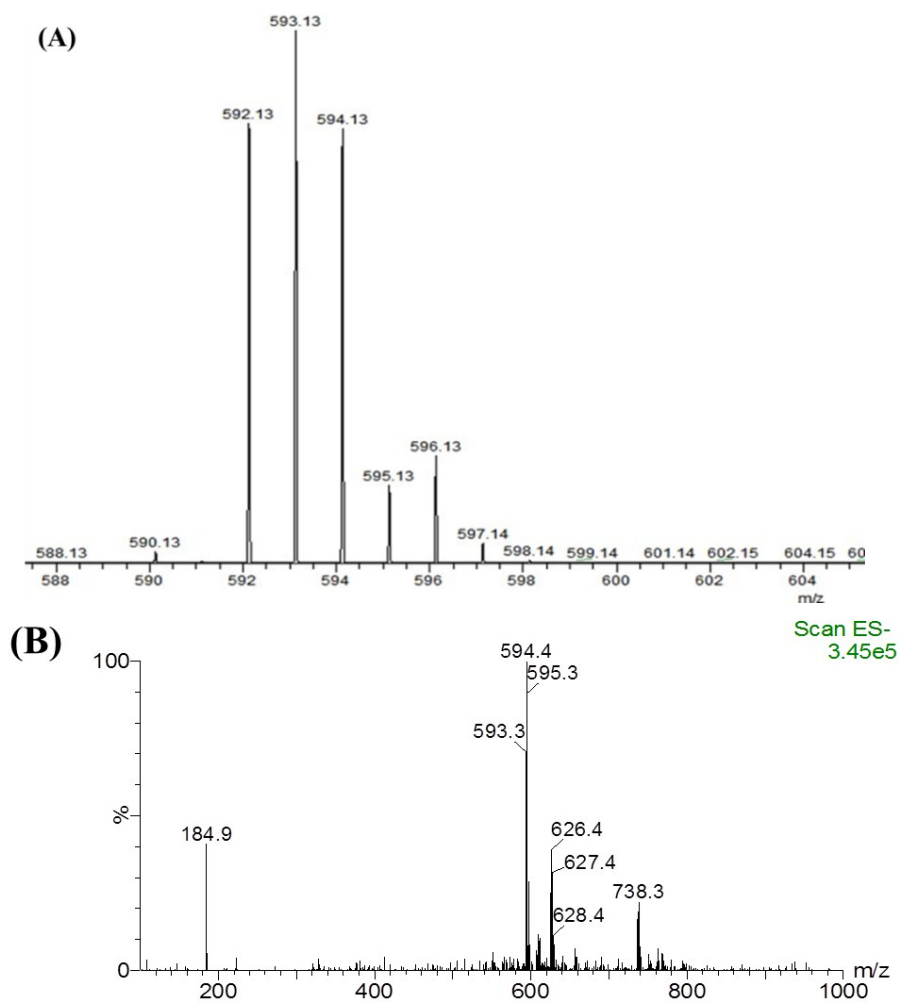


Fig. S2 ¹H NMR spectra of Z-DMC-OXA(N₃) (DMSO- d₆).



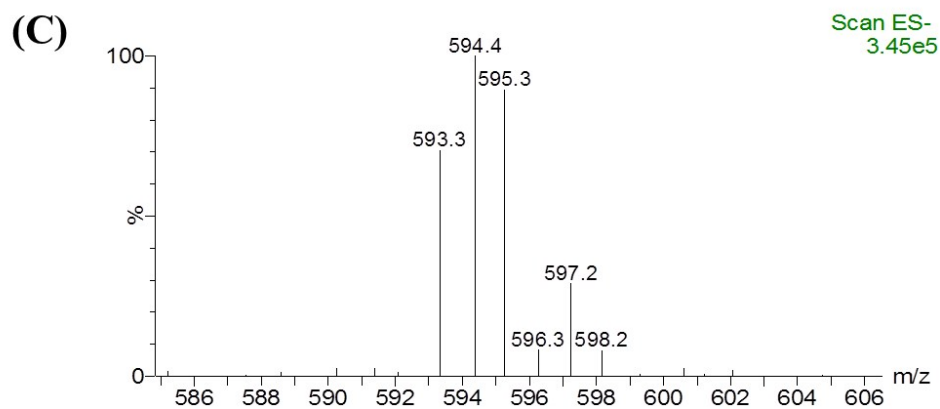
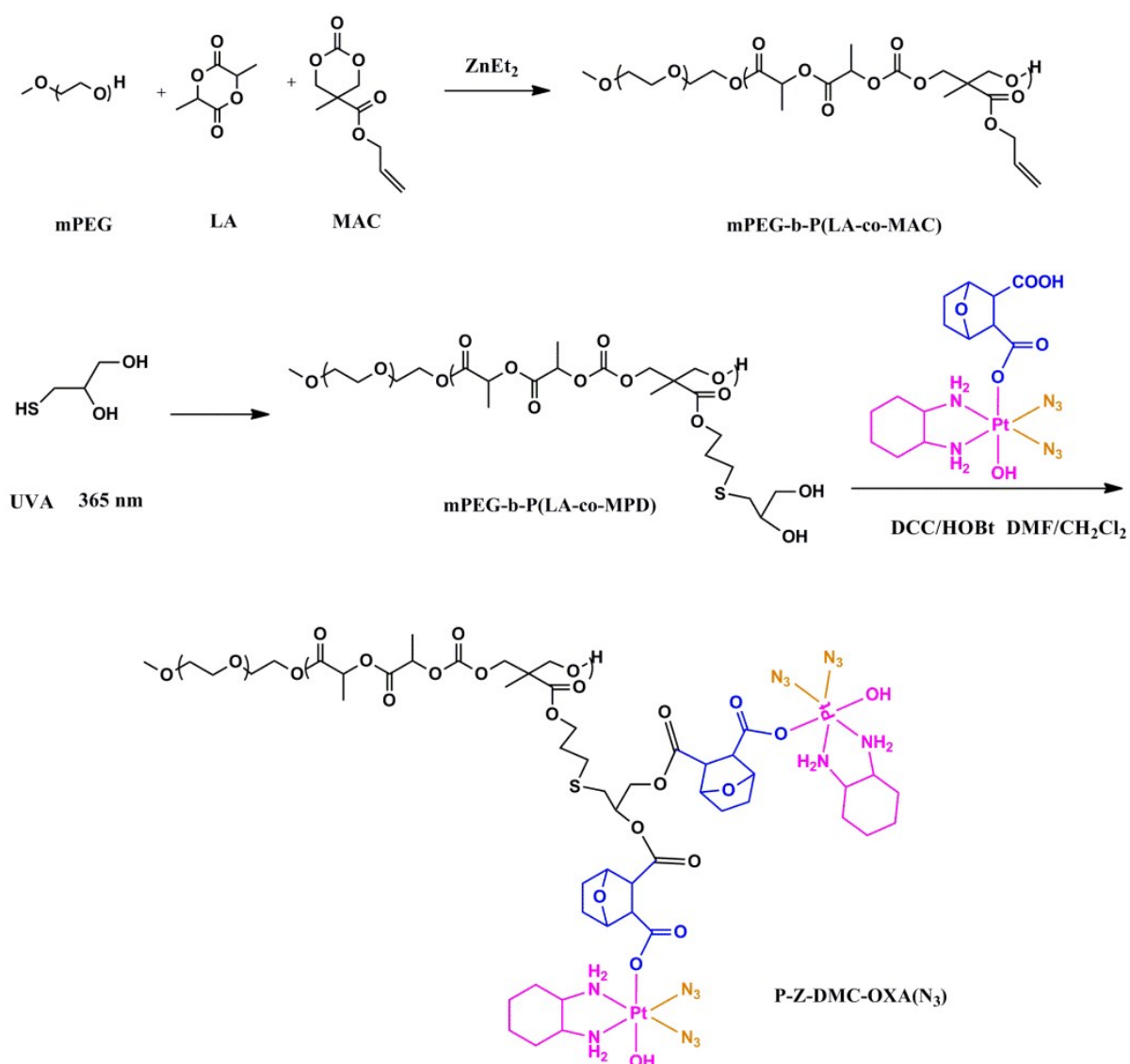


Fig. S3 Theoretical isotope pattern (A), experimental results (B) and (C) of Z-DMC-OXA(N₃) a measured by ESI-MS (negative mode).



Scheme S2. Synthesis of P-Z-DMC-OXA(N₃).

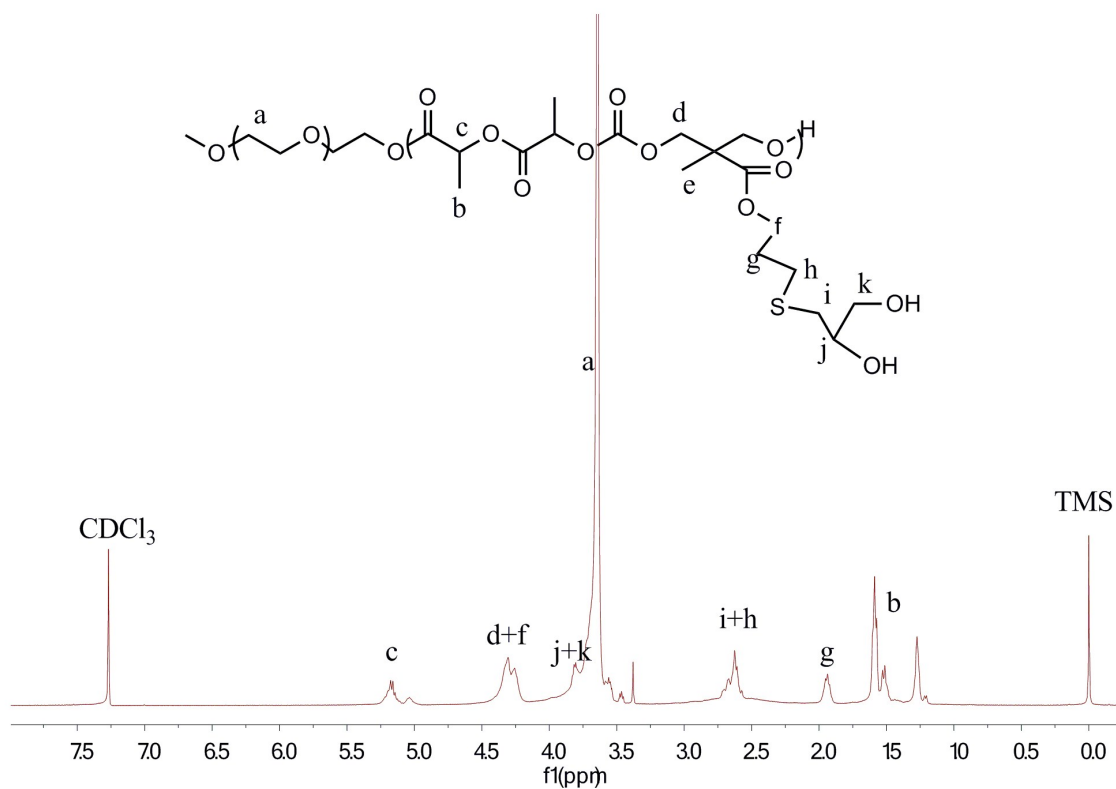


Fig. S4 ^1H NMR spectra of mPEG-b-P(LA-co-MPD) (CDCl_3).

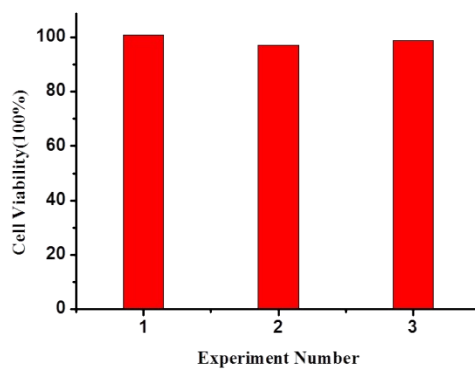


Fig. S5 Cell viability of HeLa cells without any drug in the presence of UVA irradiation.

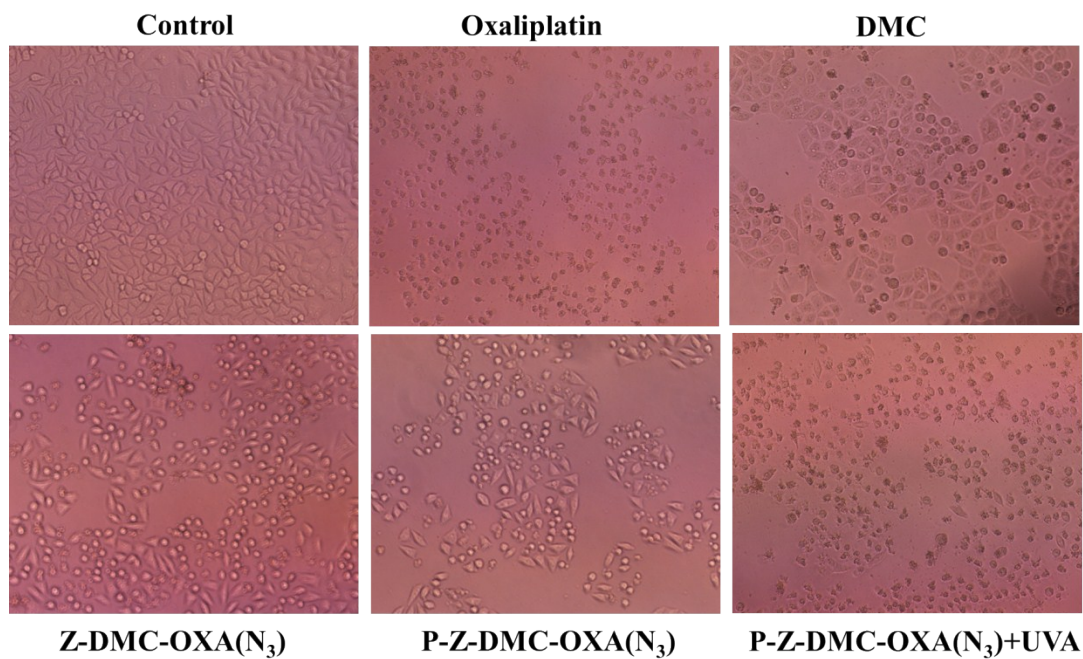


Fig. S6 Images of HeLa cells under different drug treatment at a concentration of 54 μ M (Pt or DMC) for 72 h.

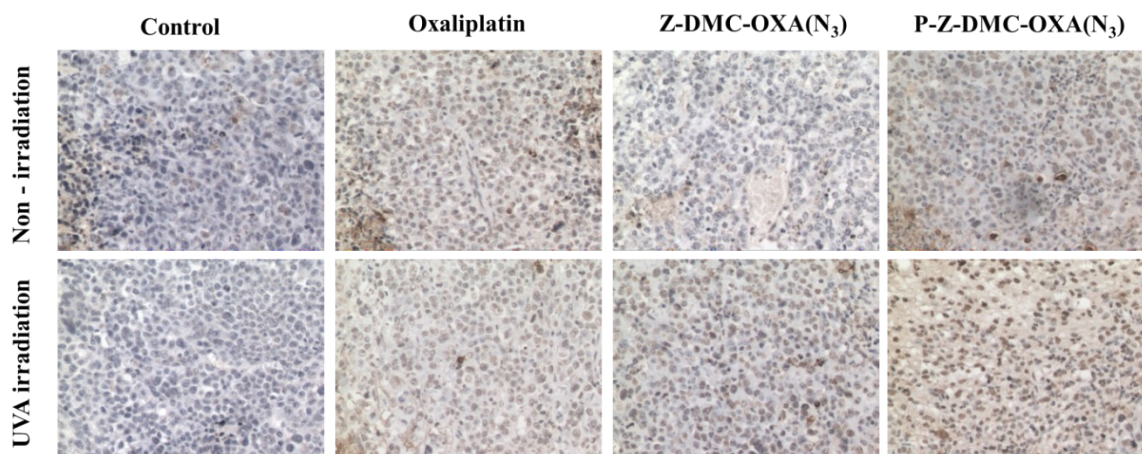


Fig. S7 TUNEL staining of H22 tumors from mice after different drug treatment on day 29.