

## *Supporting Information*

### **The ROS-responsive biomimetic nano-platform for enhanced chemophotodynamic-immunotherapy efficacy**

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DGL-G3

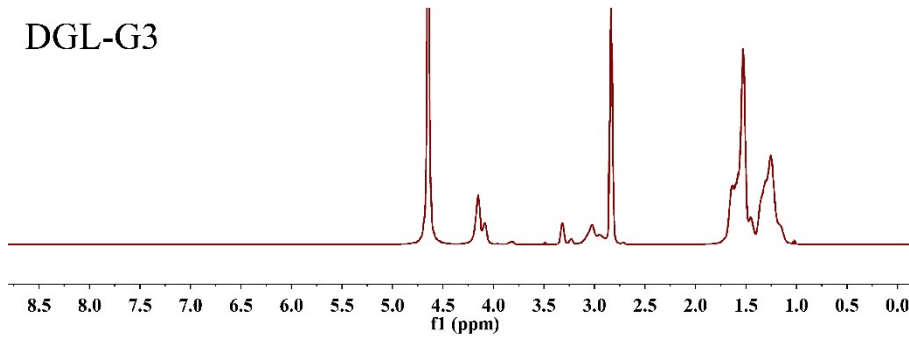


Figure S1. The <sup>1</sup>H-NMR spectra of DGL-G3.

DGL-DTX

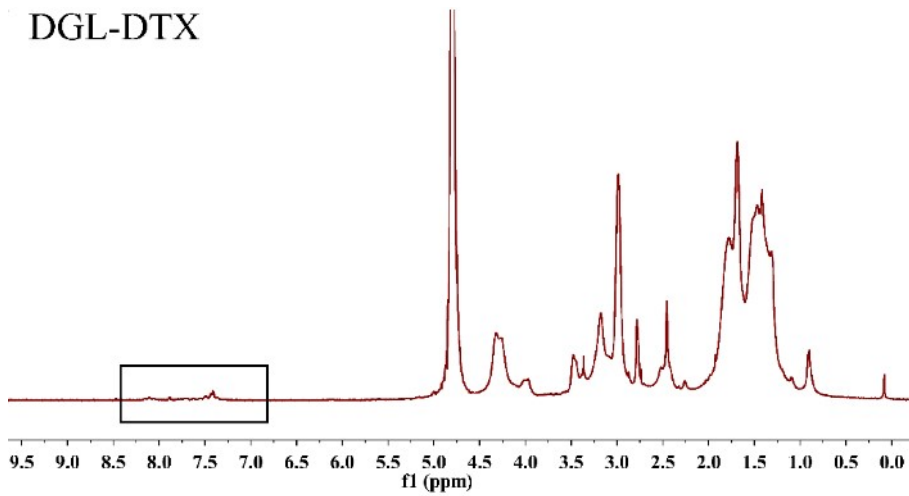


Figure S2. The <sup>1</sup>H-NMR spectra of DGL-DTX.

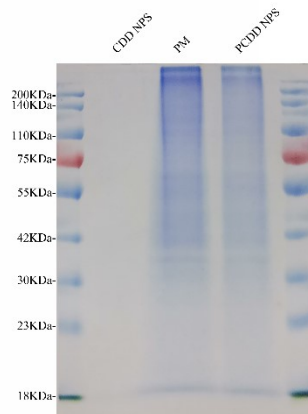


Figure S3. SDS-PAGE analysis of PCDD nanoparticles.

Table S1. Determination of hydration particle size and potential

	Z-Average/nm	PDI	Zeta/mV
CDD	79.38±0.7697	0.234±0.005	+14.9±2.31
PCDD	252.9±4.937	0.187±0.006	-20.8±0.153
PM	—	—	-24.4±0.964

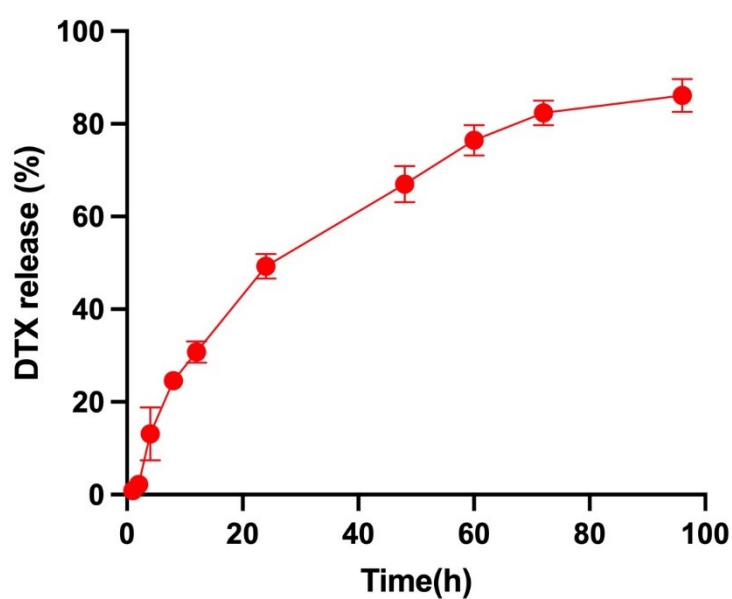


Figure S4 The drug release curve of DGL-DTX pro-drug at pH 7.4 PBS buffer.

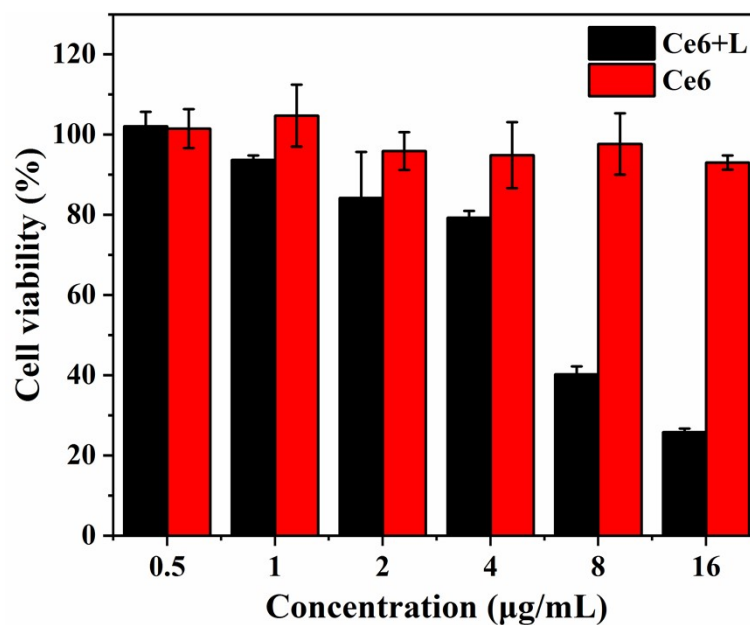


Figure S5. Cytotoxicity of Ce6 and Ce6+L

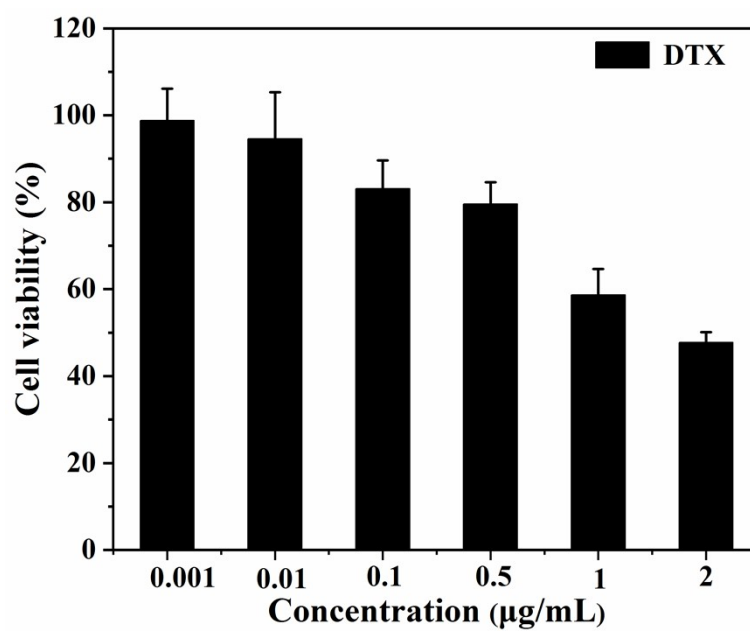


Figure S6. Cytotoxicity of DTX.

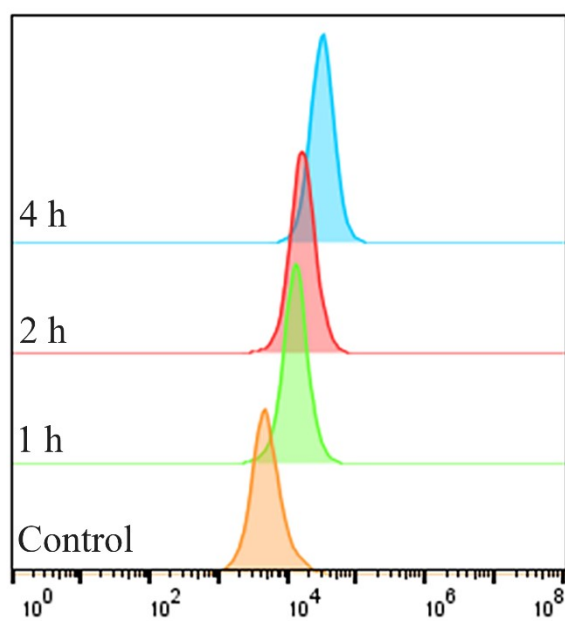


Figure S7. Flow cytometry of cell uptake of PCDD nanoparticles

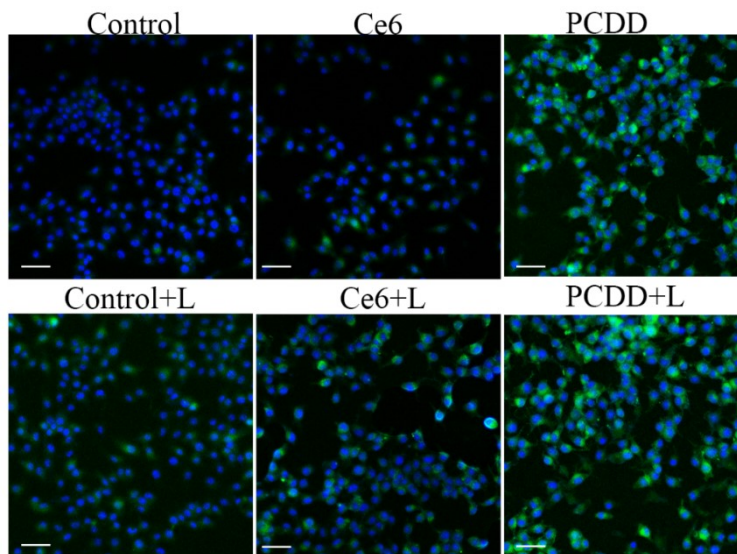


Figure S8. Determination of intracellular reactive oxygen species in B16F10 cells, scale bar, 30  $\mu$ m.

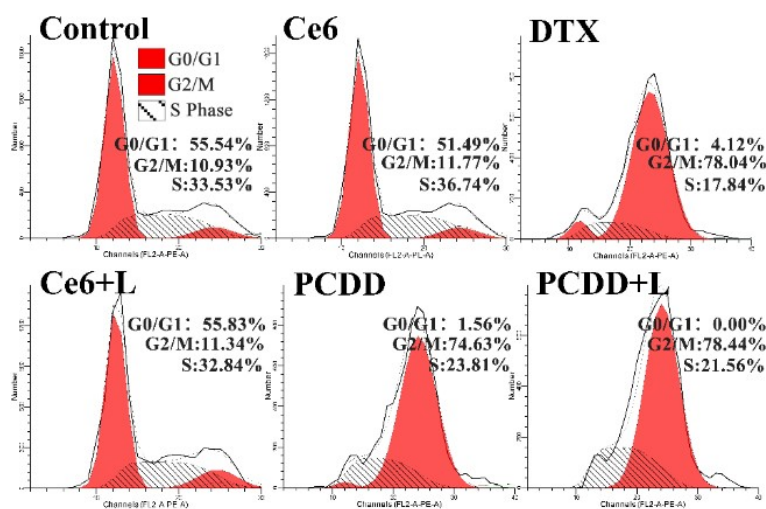


Figure S9. Cell cycle fitting curve.

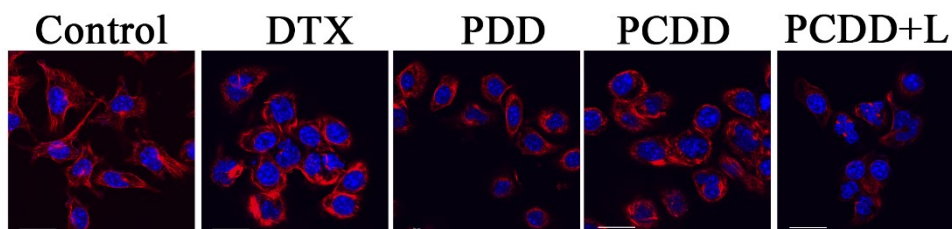


Figure S10. Changes in microtubule morphology of B16F10 cells, scale bar, 30  $\mu$ m.

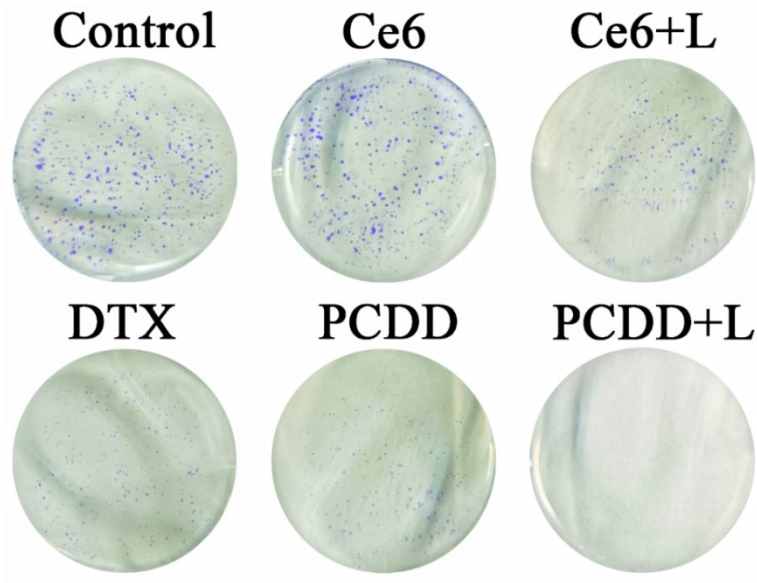


Figure S11. Colony formation in different groups.

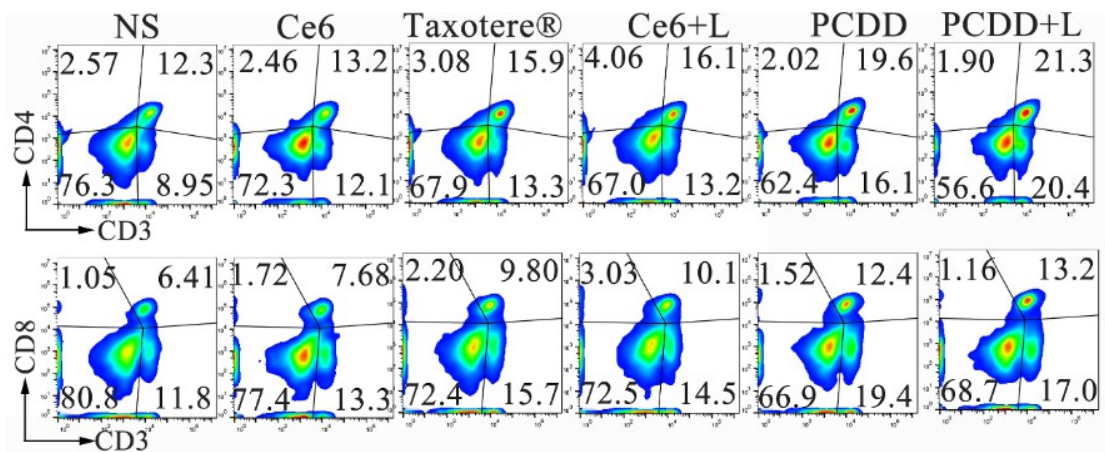


Figure S12. Flow cytometry results of Ths and CTLs of spleen in distant tumor model mice after different treatments.