

## **Supporting Information**

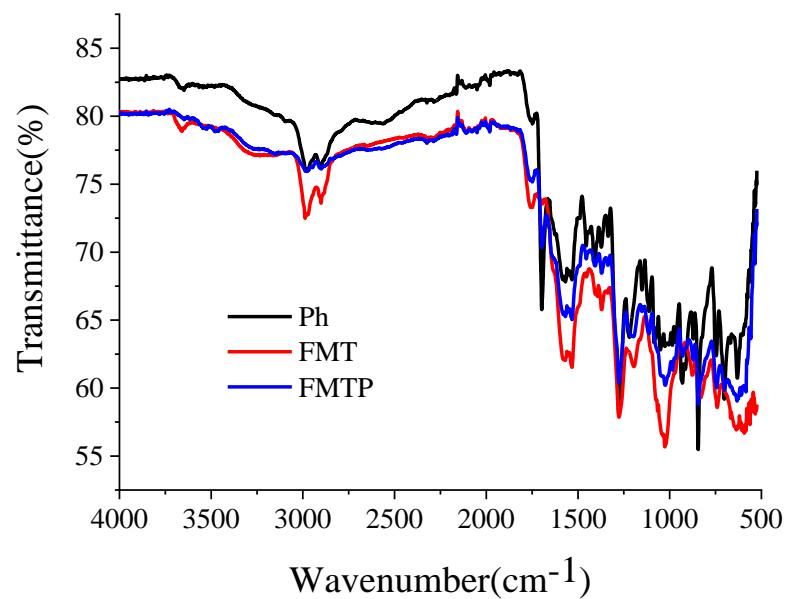
### **A novel conjunction of folate-targeted carbon nanotubes containing protohemin and oridonin-liposome loaded microbubbles for cancer chemo-sonodynamic therapy**

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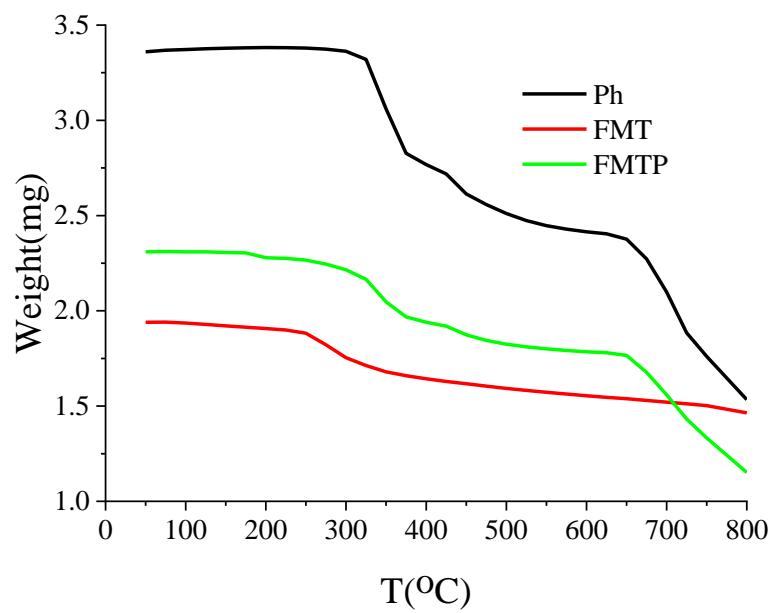
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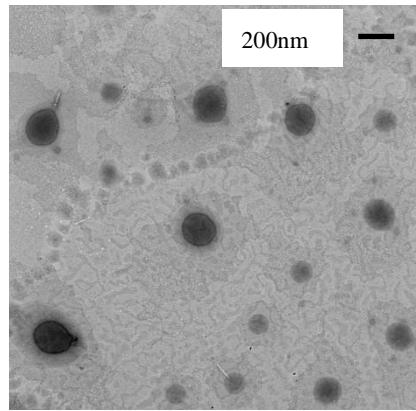
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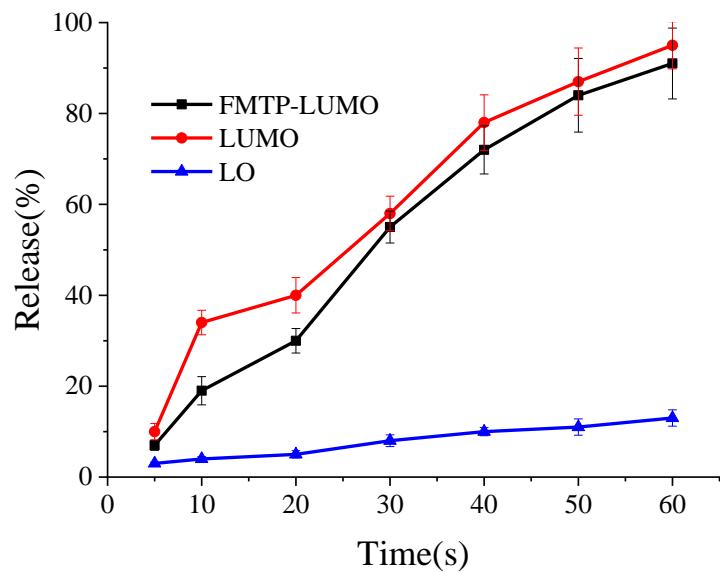
**FigureS1.** FTIR spectrum of Ph, FMT and FMTP



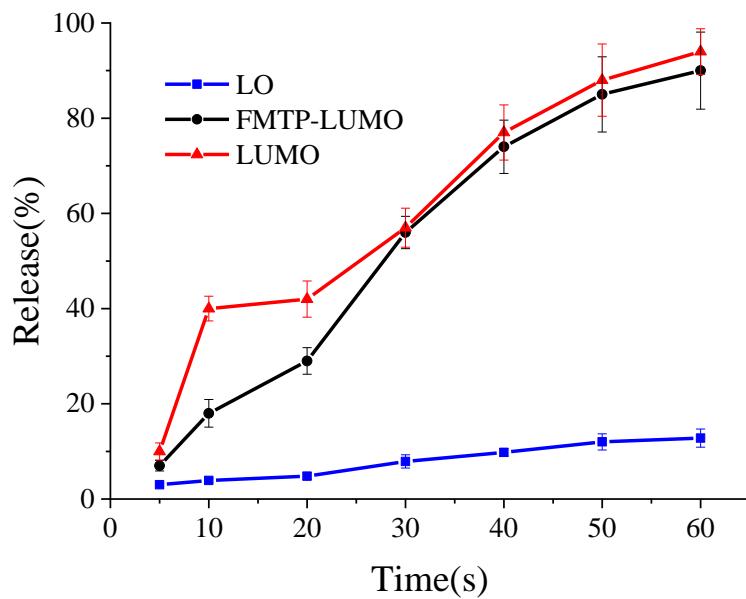
**FigureS2.** Thermogravimetric analysis profiles of Ph, FMT and FMTP



**FigureS3.** Transmission electron microscopy images of LUMO

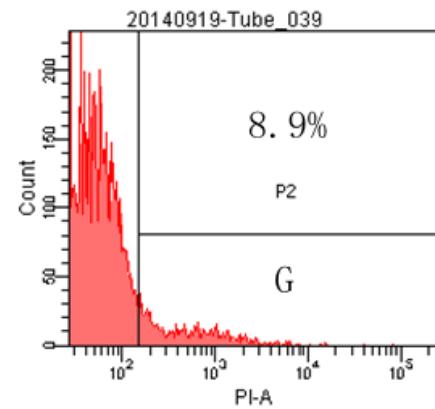
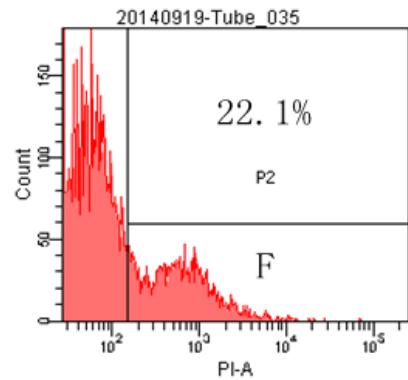
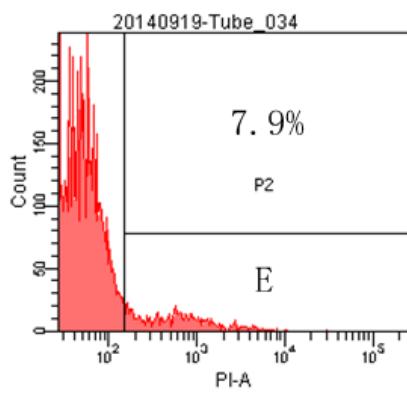
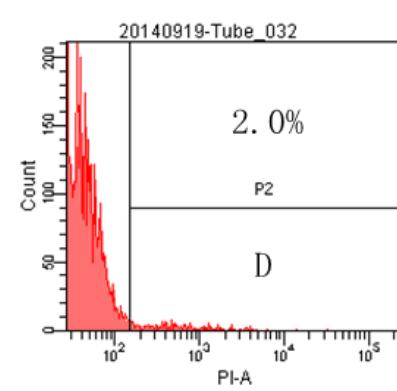
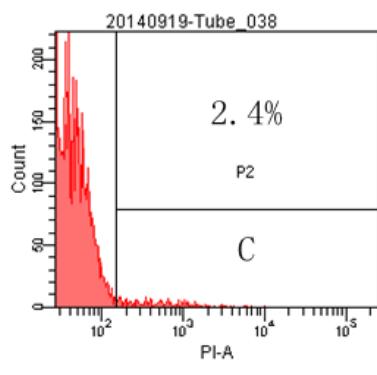
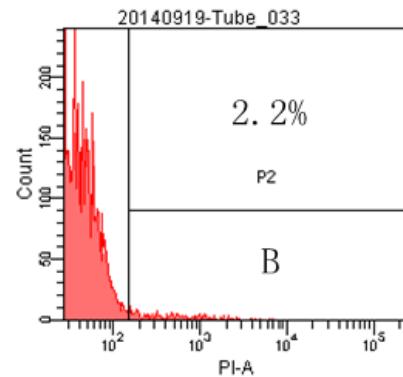
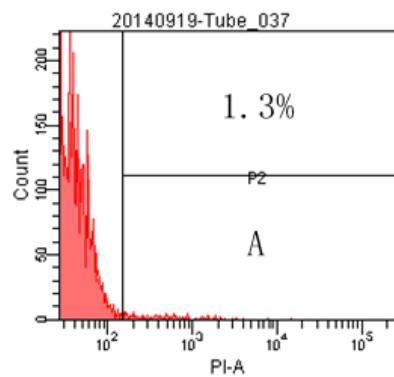


(A): pH 7.4

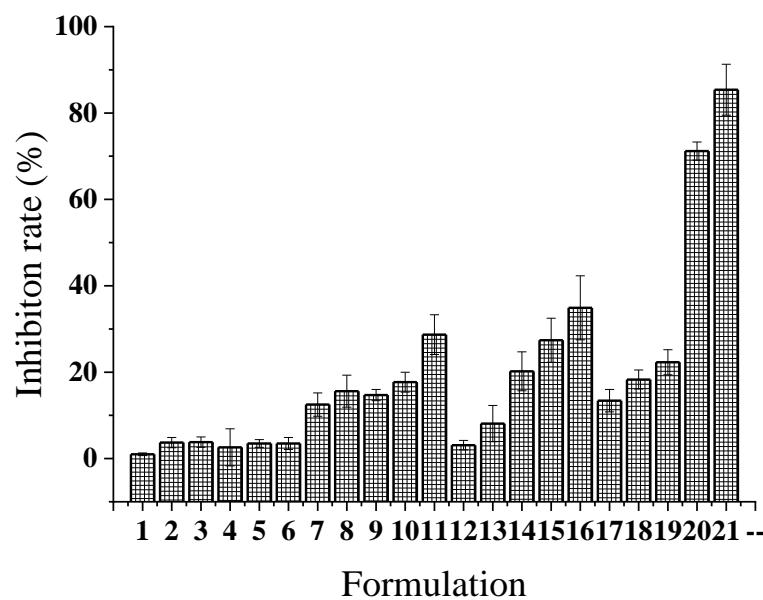


(B): pH 4.8

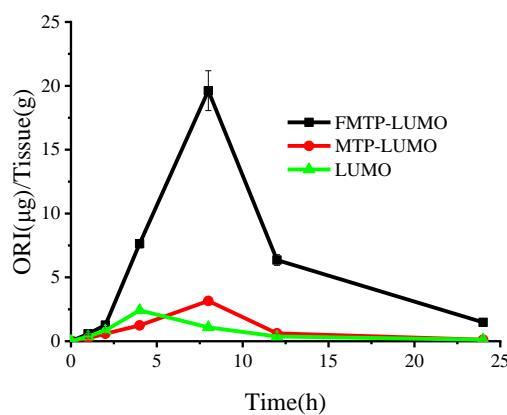
**FigureS4.** In vitro release profiles of ORI from FMTP-LUMO, LUMO and LO under ultrasound exposure for different ultrasound exposure times in PBS solution at pH 7.4 and 4.8( $n \geq 3$ ).



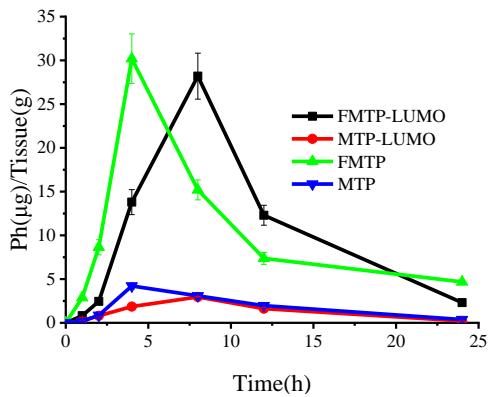
**FigureS5.** Analysis of ROS in HepG-2 cells was achieved by flow cytometry with DCFH-DA staining 30 min after SDT (ultrasonic intensity: 1.0MHz and  $0.5\text{W/cm}^2$ ) for 60 s. (A) FMT-LUMO; (B) MTP-LUMO; (C) FMT-LUMO; (D) FMT-LUMO plus US; (E) MTP-LUMO plus US; (F) FMTP-LUMO plus US; (G) FMTP-LUMO plus US plus 1mM folate (FR blocking group).



**FigureS6.** Inhibition rate among 21 groups on HepG-2 cells (mean  $\pm$  SD)



**FigureS7.** ORI concentration-time profile of tumor tissues following a single iv dose of FMTP-LUMO, MTP-LUMO and LUMO in HepG-2-bearing model of balb/c mice. Values expressed as mean  $\pm$  SD.



**FigureS8.** Ph concentration-time profile of tumor tissues following a single iv dose of FMTP-LUMO, MTP-LUMO, FMTP and MTP in HepG-2-bearing model of balb/c mice. Values expressed as mean  $\pm$  SD.