

Supporting information for Biocompatible melanin based theranostic agent for in vivo detection and ablation of orthotopic micro-hepatocellular carcinoma

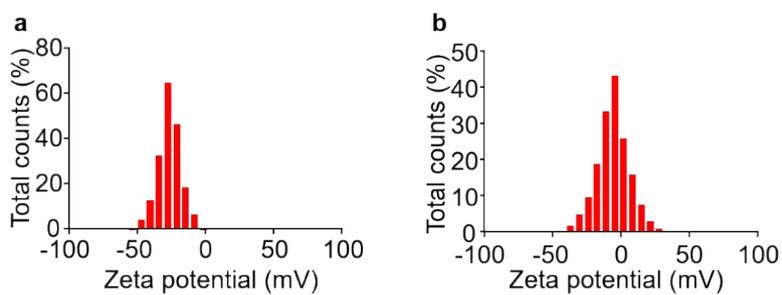


Fig. S1. Zeta potentials of the MNPs and PEG-MNPs.

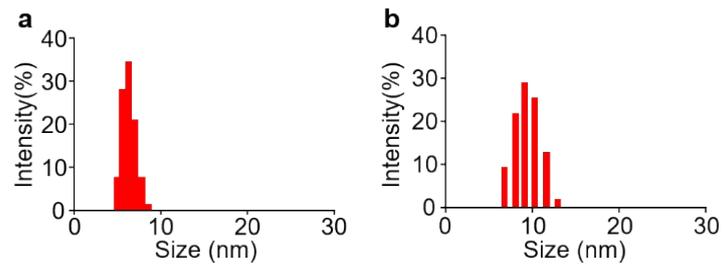


Fig. S2. Hydrodynamic size distribution of the MNPs and PEG-MNPs.

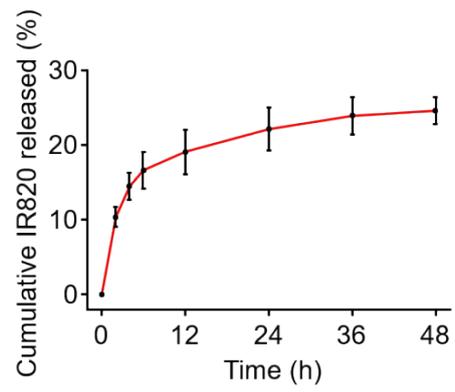


Fig. S3. IR820 released from the PEG-MNPs at different time points in the PBS.

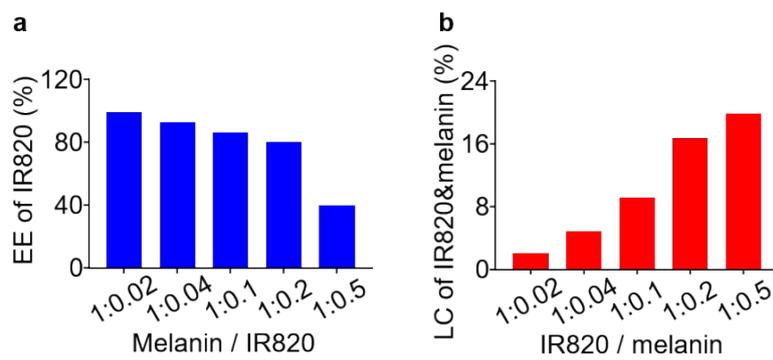


Fig. S4. The encapsulation efficiency (EE) and loading capacity (LC) of IR820 for the PEG-MNPs at room temperature.

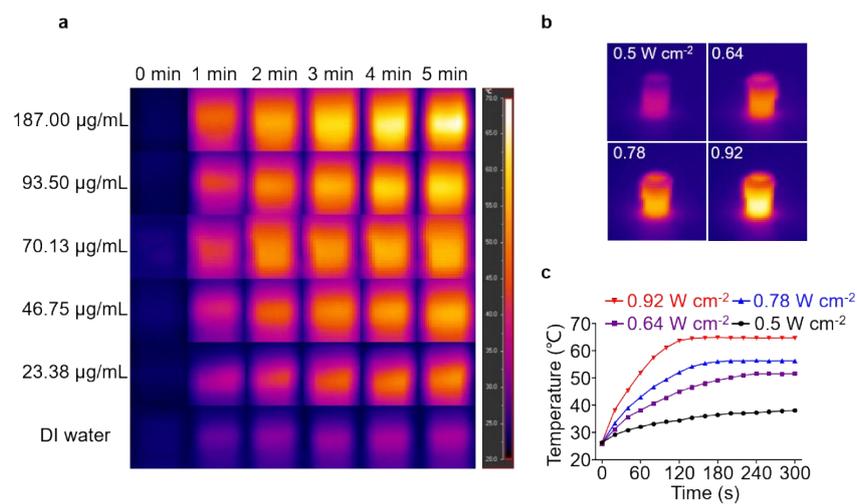


Fig. S5 IR images of temperature changes of the IR820-PEG-MNPs in aqueous solution with various concentrations under irradiation (808 nm, 0.78 W/cm<sup>2</sup>). (b) IR images of temperature changes of the IR820-PEG-MNPs at the same concentration with different power density.

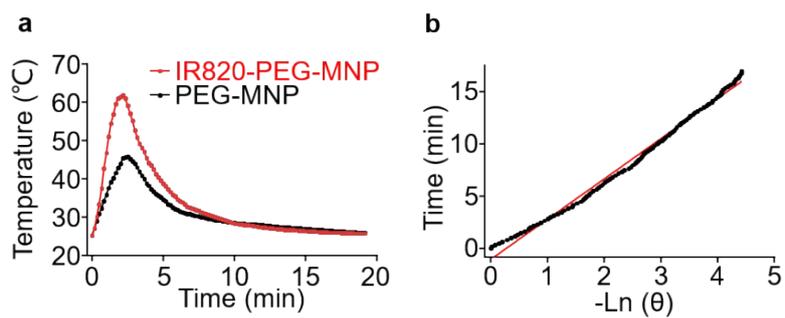


Fig. S6 Photothermal performance of the IR820-PEG-MNPs dispersed in aqueous solution irradiated by 808 nm laser. (a) The laser was turned off when the temperature became stable. (b) Photothermal conversion efficiency of the IR820-PEG-MNPs.

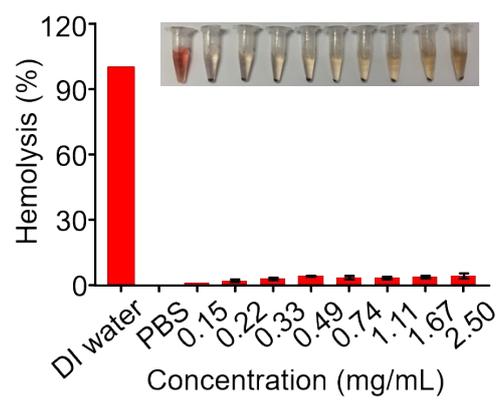


Fig. S7 Hemolysis test of the IR820-PEG-MNPs on red blood cells.

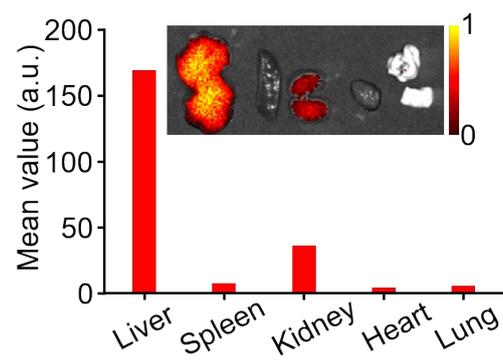


Fig. S8 Fluorescence images of major organs after systemically administration.