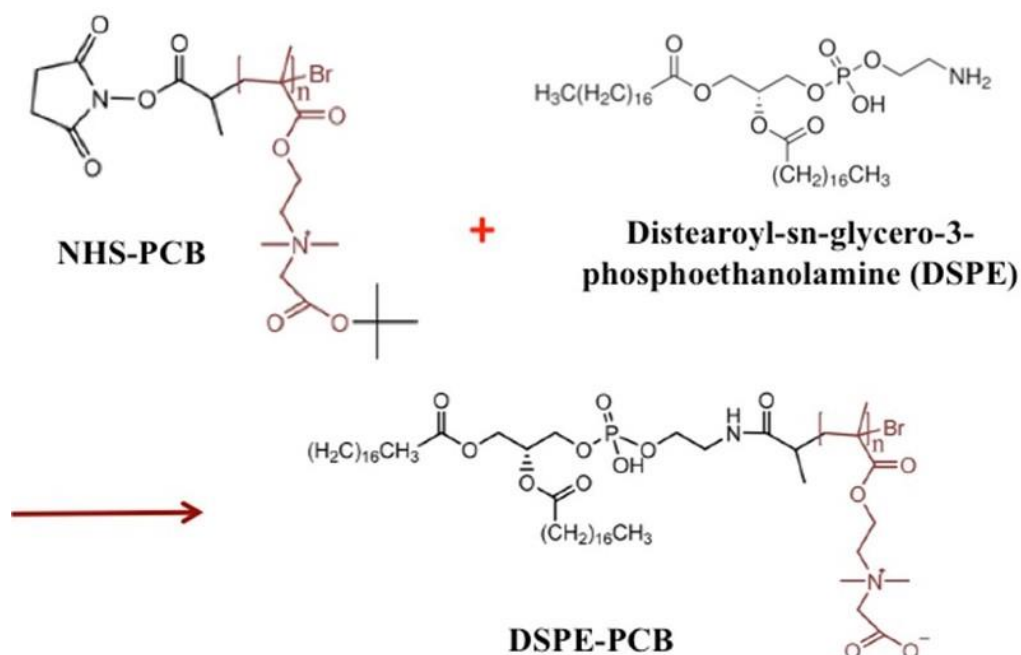


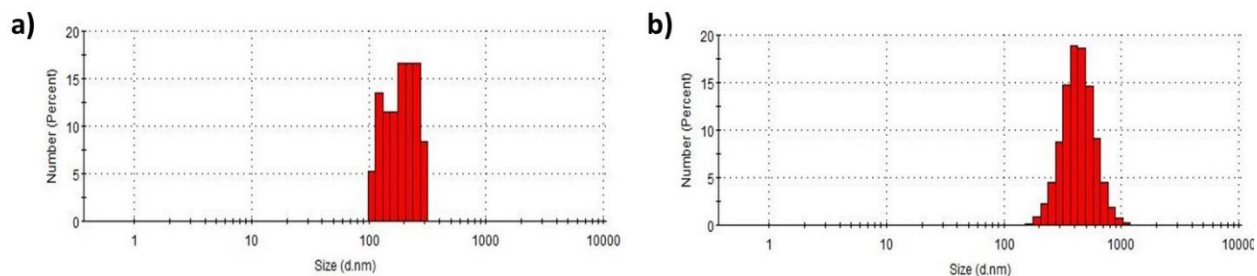
## Supplementary

# A Lipophilic IR-780 Dye-Encapsulated Zwitterionic Polymer-Lipid Micellar Nanoparticle for Enhanced Photothermal Therapy and NIR-Based Fluorescence Imaging in a Cervical Tumor Mouse Model

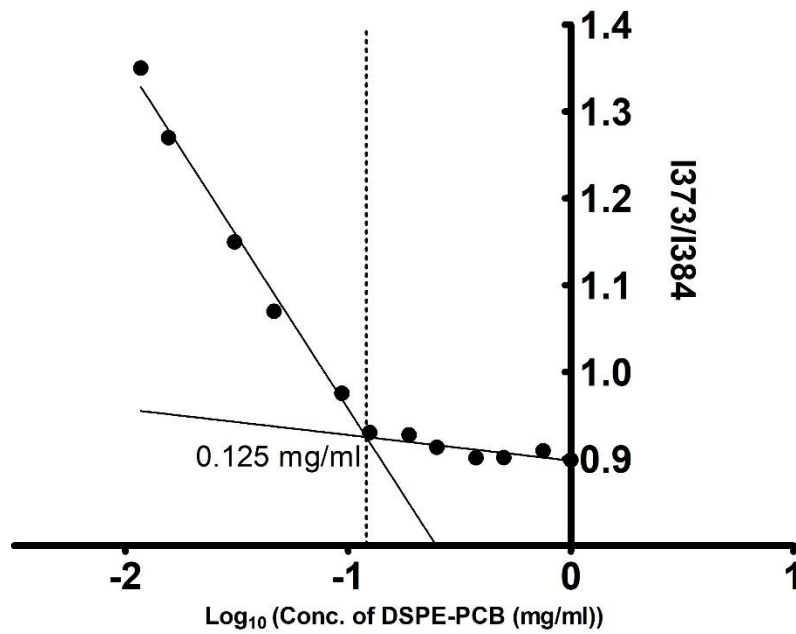
Santhosh Kalash Rajendrakumar, Ning-Chu Chang, Adityanarayan Mohapatra, Saji Uthaman, Byeong-II Lee, Wei-bor Tsai, and In-Kyu Park



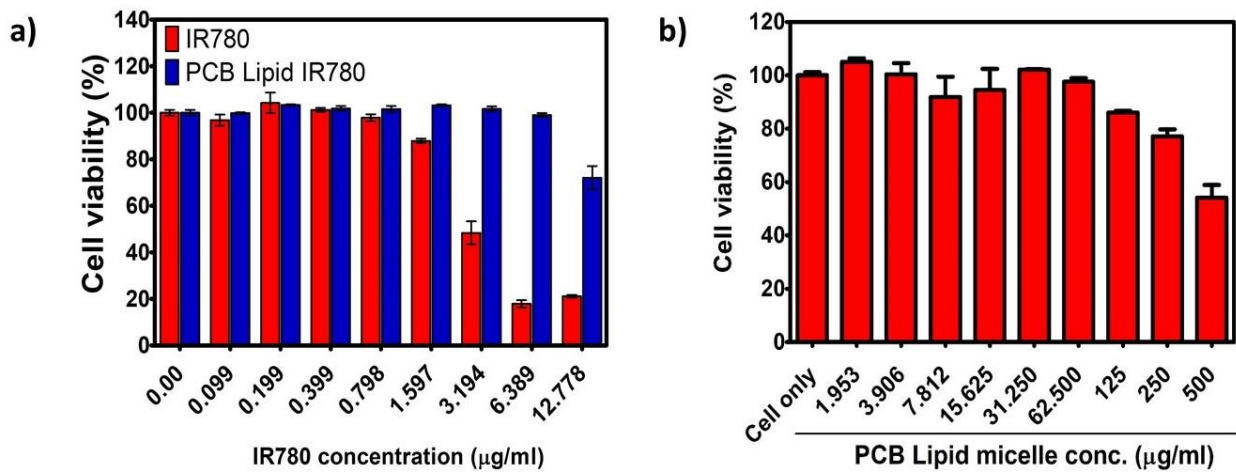
**Figure S1.** Schematic representation of PCB-lipid synthesis by RAFT polymerization.



**Figure S2.** Hydrodynamic size of (a) PCB-lipid micellar nanoparticle and (b) PCB-lipid-IR-780 in water.



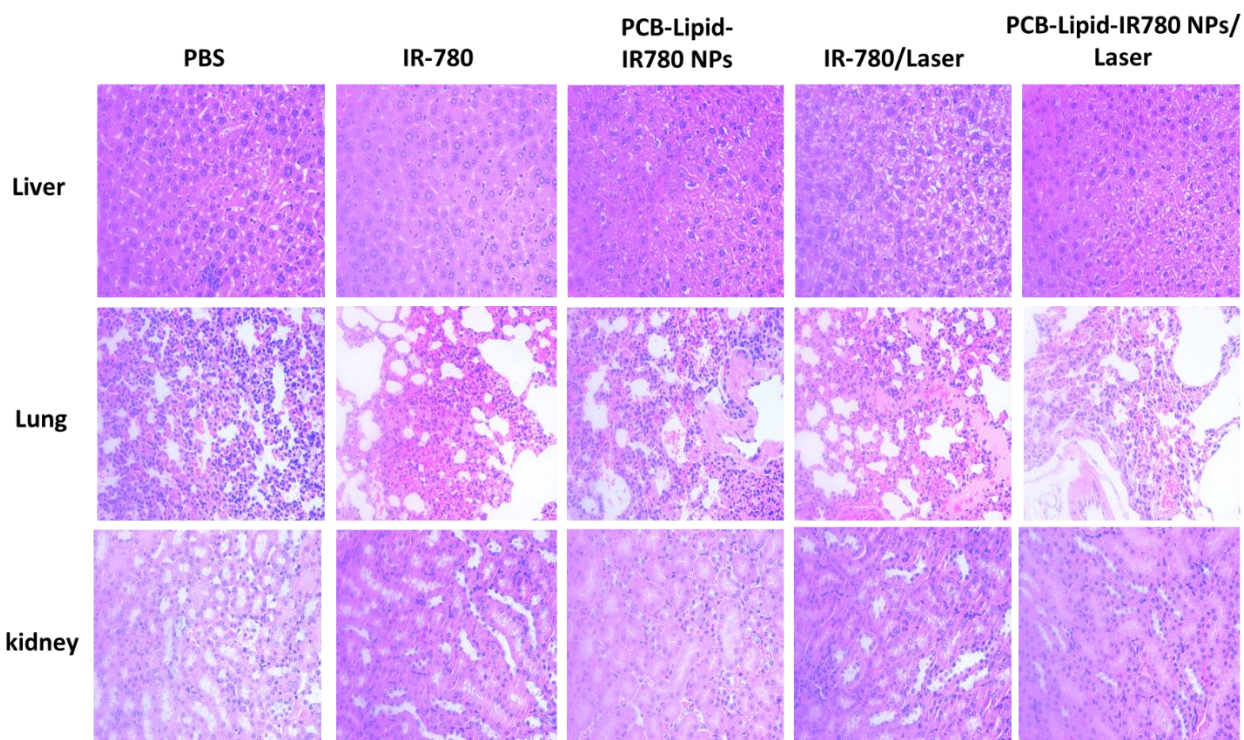
**Figure S3.** Critical micellar concentration of PCB-lipid micellar nanoparticles.



**Figure S4.** Viability of RAW264.7 cell line treated with PCB-lipid-IR-780 nanoparticles at different IR-780 concentrations. MTS analysis of RAW264.7 cell line treated with (a) IR-780 and PCB-lipid-IR-780 NPs; (b) PCB-lipid micellar nanoparticles.



**Figure S5.** After 16 days, animal images of PTT-treated TC-1 xenograft mouse models administered with PCB-lipid-IR-780.



**Figure S6.** H&E staining of liver, lung, and kidney from PTT-treated TC-1 xenograft mouse models administered with PCB-lipid-IR-780.