

Supplementary Figure File

Ultrasmall porphyrin-silica core-shell dots for enhanced fluorescence imaging-guided cancer photodynamic therapy

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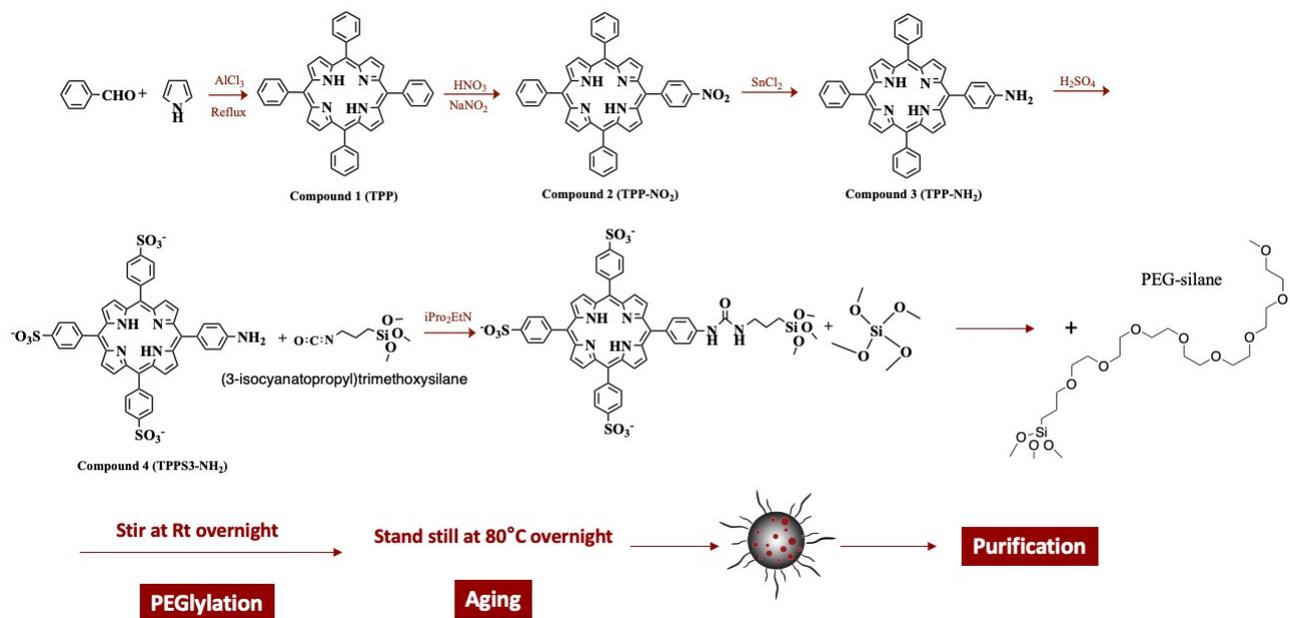


Fig. S1: Synthesis route for the preparation of ultra-small silica nanoparticles conjugating metal-free water-soluble porphyrin

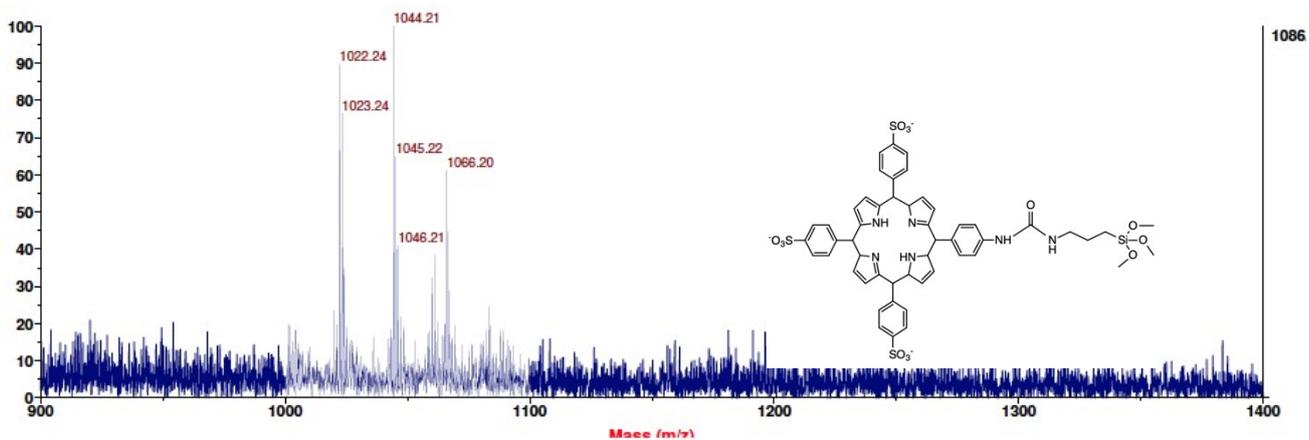


Fig. S2. Mass Spectroscopic measurement of TPPS3- NH_2 conjugated with silane.

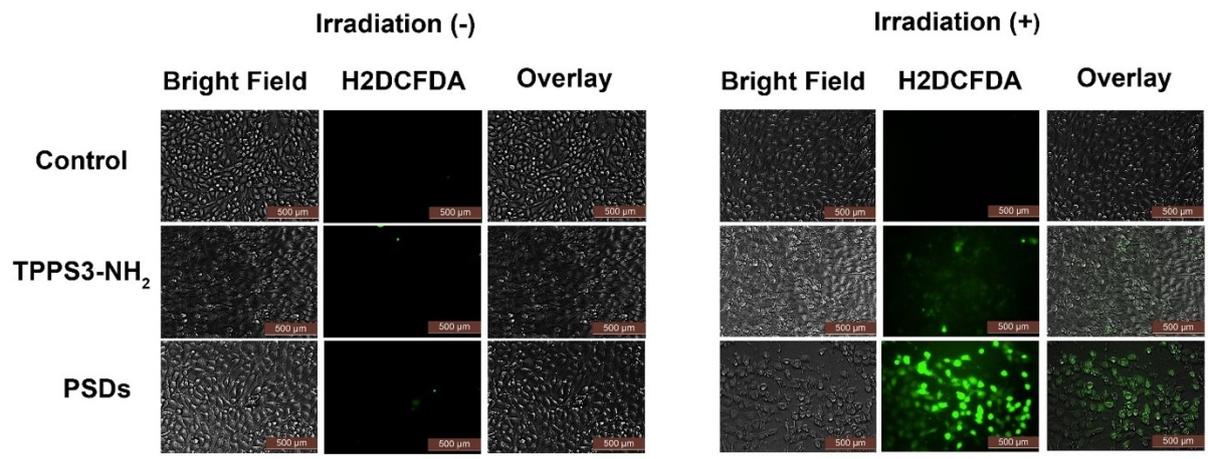


Fig. S3. Detection of singlet oxygen generation ability of PSDs in 4T1 cell with fluorescent probe H2DCFDA. H2DCFDA showed green fluorescence in the presence of singlet oxygen.

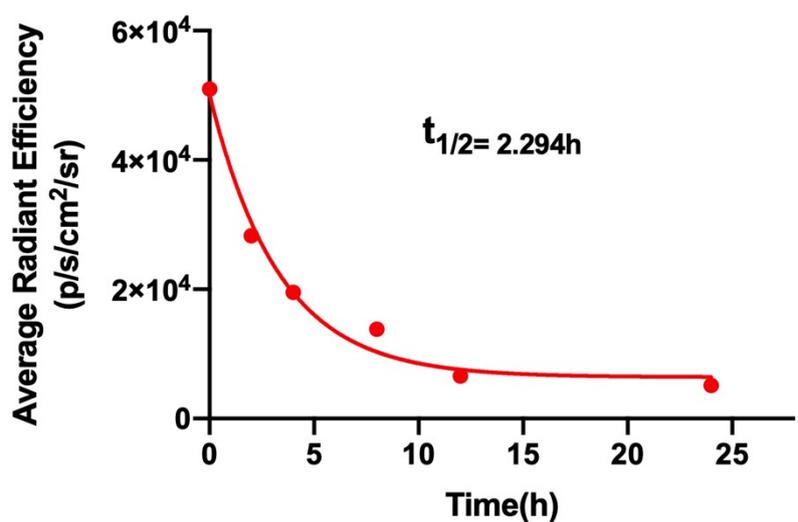


Fig. S4. Blood routine kinetics of PSDs (at 5mg porphyrin equiv kg⁻¹).

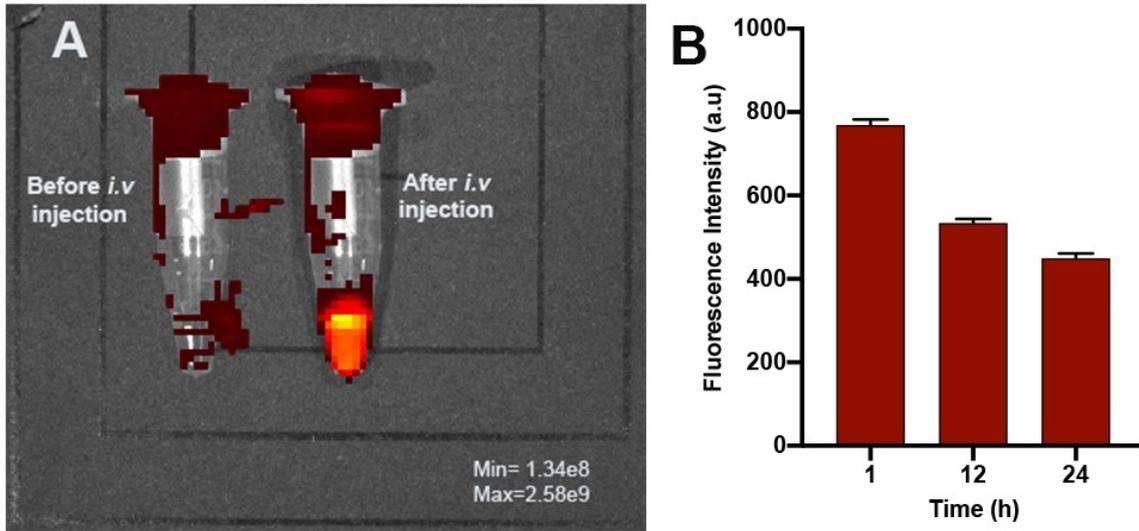


Fig. S5. Renal Clearance analysis of PSDs; **(A)** Fluorescence images of urine sample before and after (1h) injection of PSDs, **(B)** Time-dependent analysis of urine samples at different time-points.

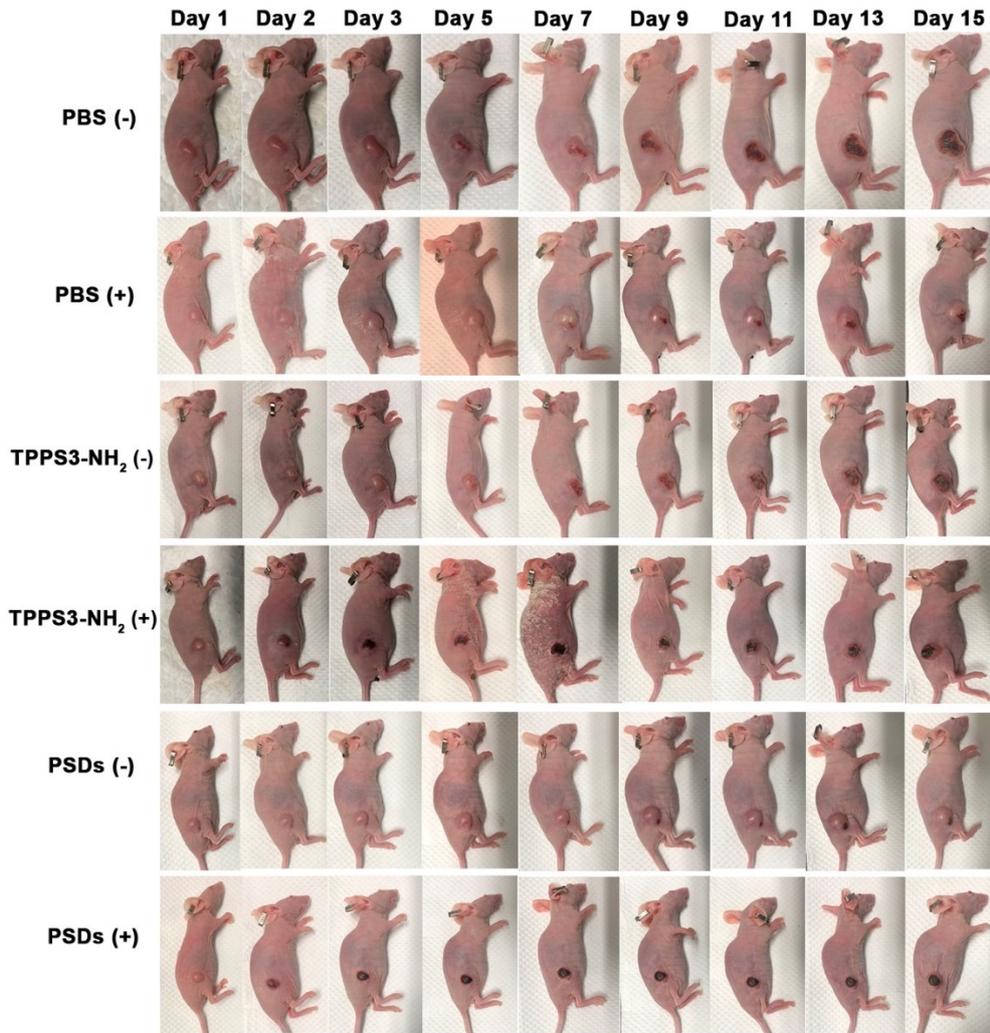


Fig. S6. Representative photographs of 4T1-tumor-bearing mice after different treatments.

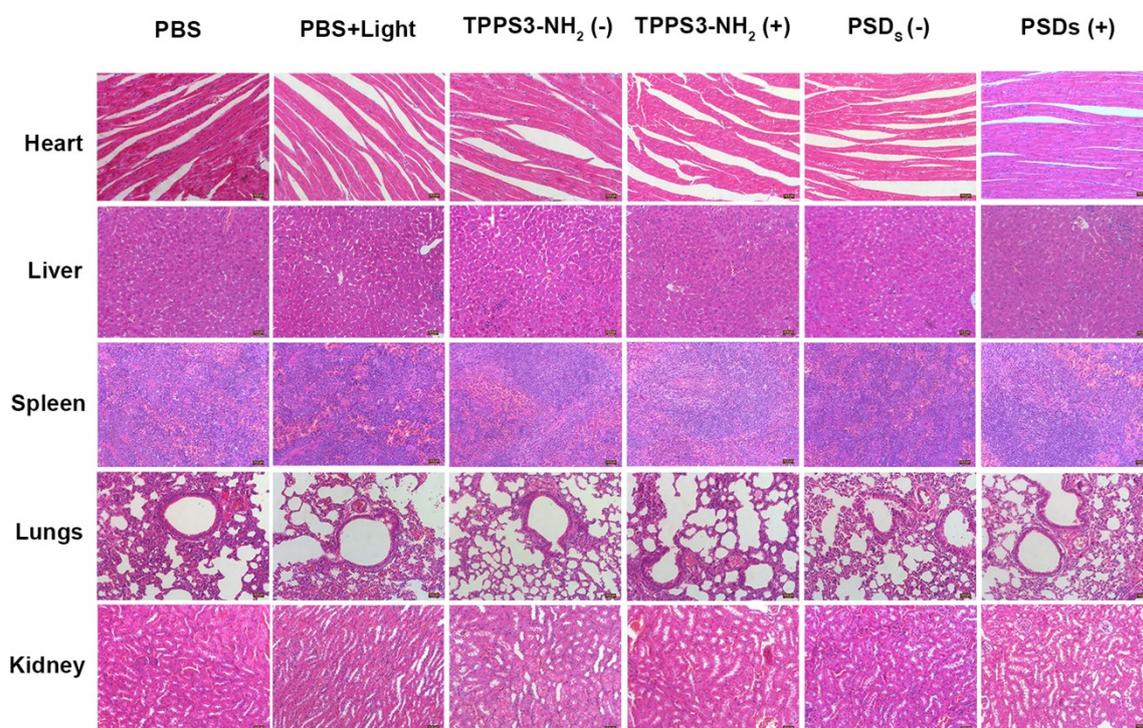


Fig. S7. Biocompatibility of PSDs, H&E analysis of major organs of mice of each treatment group.