

Electronic Supplementary Information

Curcumin-loaded PEGylated mesoporous silica nanoparticles for effective photodynamic therapy

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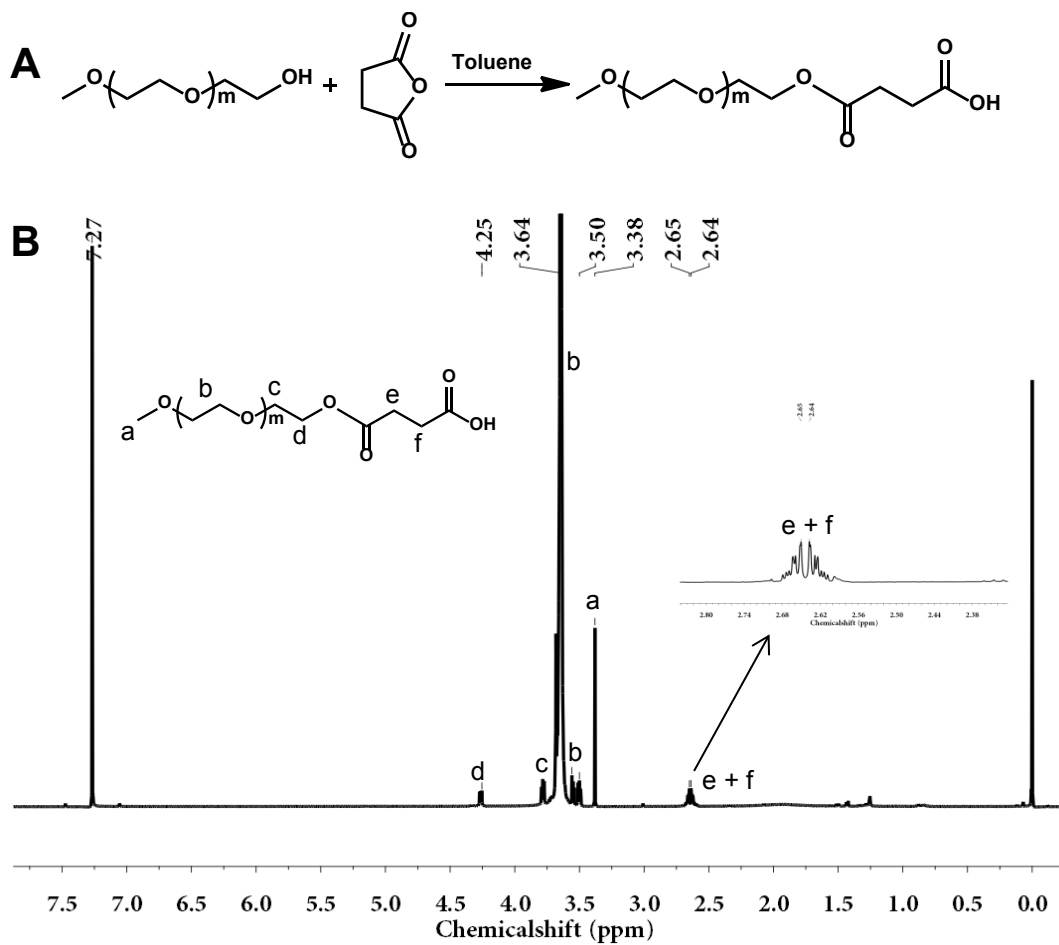


Fig. S1. Synthesis (A) and characterization (B) of mPEG_{2k}-COOH.

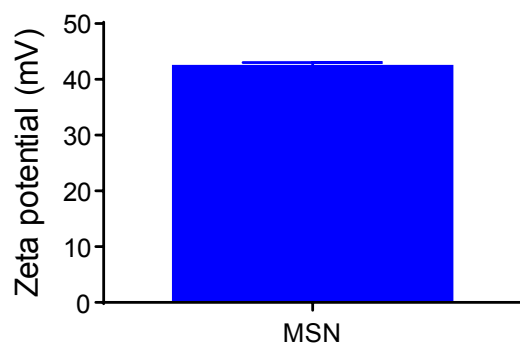


Fig. S2. Zeta potential of MSN.

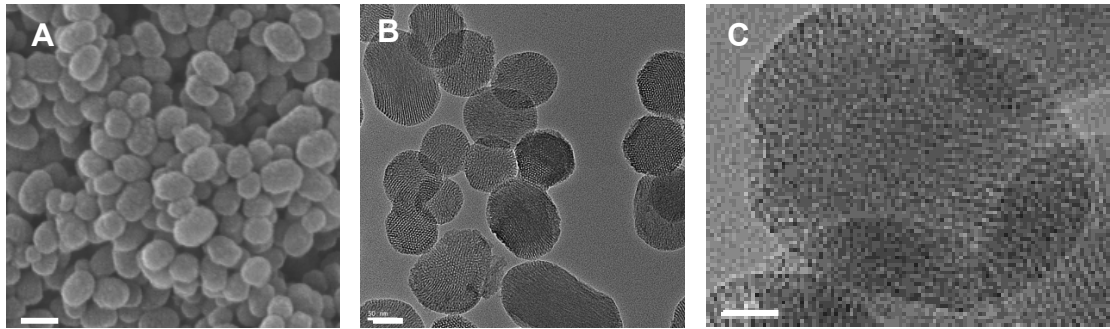


Fig. S3. (A) SEM (Scale bar = 200 nm) and (B) TEM of MSN-NH₂ (Scale bar = 50 nm). (C) TEM of MSN-PEG (Scale bar = 10 nm).

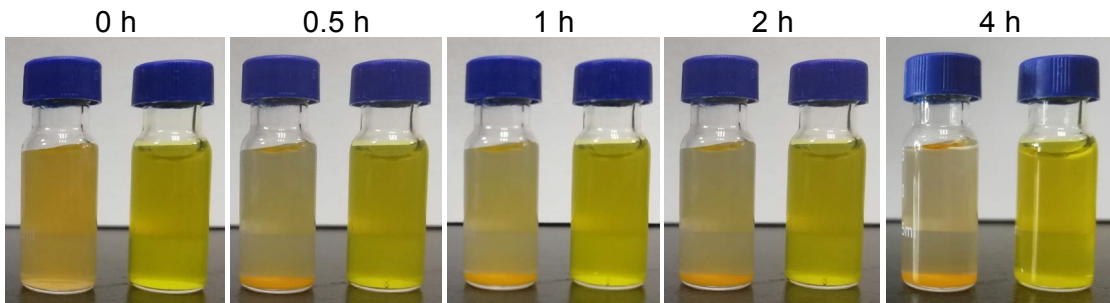


Fig. S4. The photographs of Cur and MSN-PEG@Cur after incubation in water for different time intervals.

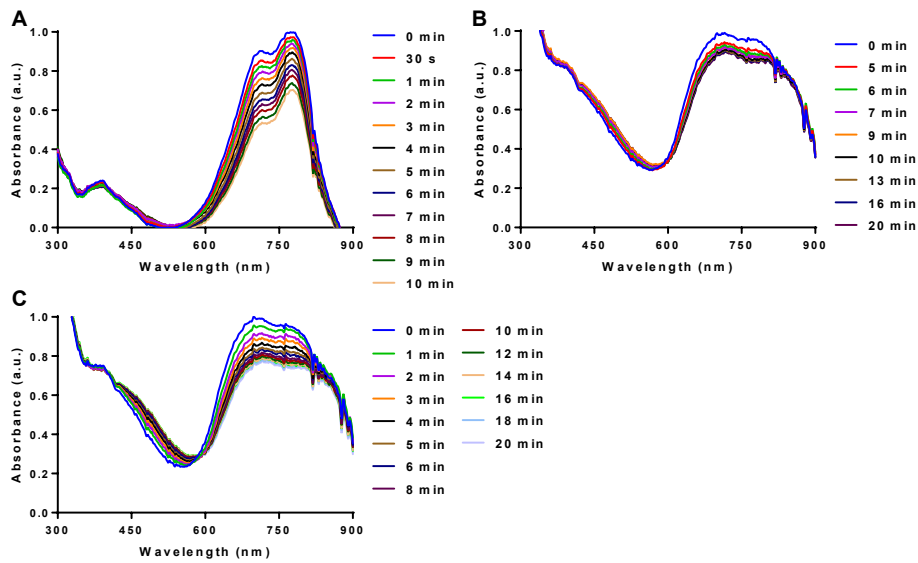


Fig. S5. Time-dependent UV absorption spectra of ICG with (A) Cur, (B) MSN-PEG@Cur after irradiation with a 430 nm light for different time intervals. (C) Time-dependent UV absorption spectra of ICG with MSN-PEG@Cur that incubated with ABS (pH 5.0) for 4 h and then irradiated for different time intervals. (430 nm, 20 mW/cm²).

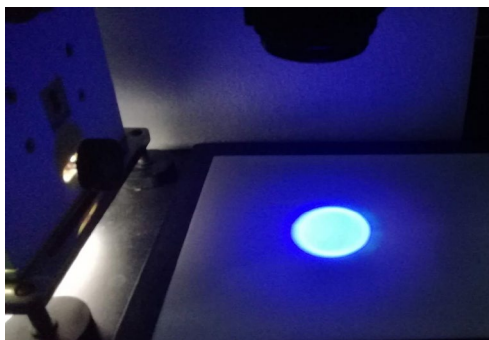


Fig. S6. Light source. (430 nm, 20 mW/cm²).