Near-Infrared Light Triggered ROS-activated Theranostics Platform Based on Ce6-CPT-UCNPs for Simultaneous Fluorescence Imaging and Chemo-Photodynamic Combined Therapy of Lung Cancer

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Fig. S1. Mass spectrum of ROS responsive camptothecin (TL-CPT). The mass-to-charge ratio (m/z) of 605.0 \([\text{M+Na}^+]\) corresponded to TL-CPT.
Fig. S.2. Structural formula of Ce6.

Fig. S.3. (A) Aqueous size of naked UCNPs was about 42 nm by dynamic light scattering (DLS); (B) Aqueous size of Ce6-CPT-UCNPs was about 68 nm.

Fig. S.4. Stability of Ce6-CPT-UCNPs in RPMI-1640 medium with 10% fetal calf serum.
Fig.S5. XPS spectrum of the naked UCNPs.

Fig.S6. Fluorescence luminescence spectra of UCNPs and Ce6-CPT-UCNPs in water, excitation:510nm.

Fig.S7. Cumulative release profiles of CPT from nanoparticles with and without laser irradiation. Standard deviations are shown as error bars for three parallel experiments.
Fig. S8. Real-time *in vivo* and *ex vivo* fluorescence imaging of healthy athymic nude mice with intravenous injection of Ce6-CPT-UCNPs (15 mg/kg) at different time points.