

## Supplementary Information

### Photosensitizer-Loaded Bubble-Generating Mineralized Nanoparticles for Ultrasound Imaging and Photodynamic Therapy

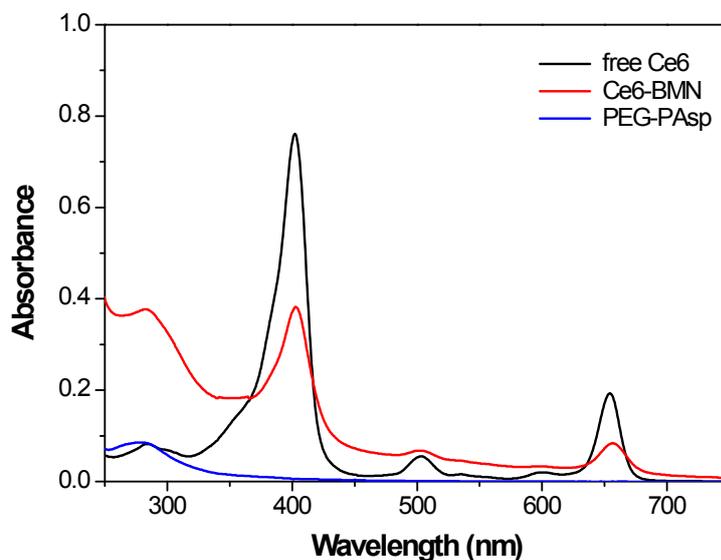
Dong Jin Park, Kyung Hyun Min, Hong Jae Lee, Kwangmeyung Kim, Ick Chan Kwon,  
Seo Young Jeong, and Sang Cheon Lee\*

**Table S1.** Characteristics of Ce6-BMNs.

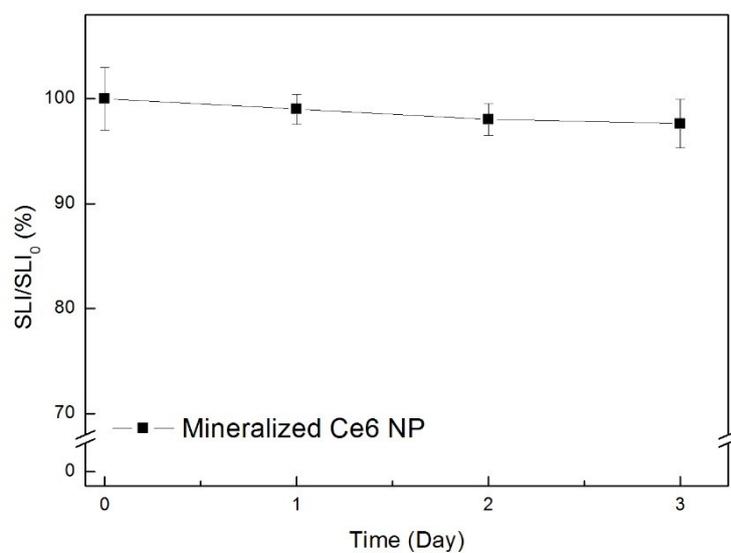
Ce6 feed ratio (%)	Loading contents <sup>a</sup> (%)	Loading efficiency <sup>a</sup> (%)	Mean diameter <sup>b</sup> (nm)	Polydispersity factor <sup>b</sup> ( $\mu_2/\Gamma^2$ )
10	8.3	83.3	354.0 ± 59.5	0.24 ± 0.04

<sup>a</sup> Weight percentage of Ce6 in Ce6-BMNs calculated by UV spectrophotometer.

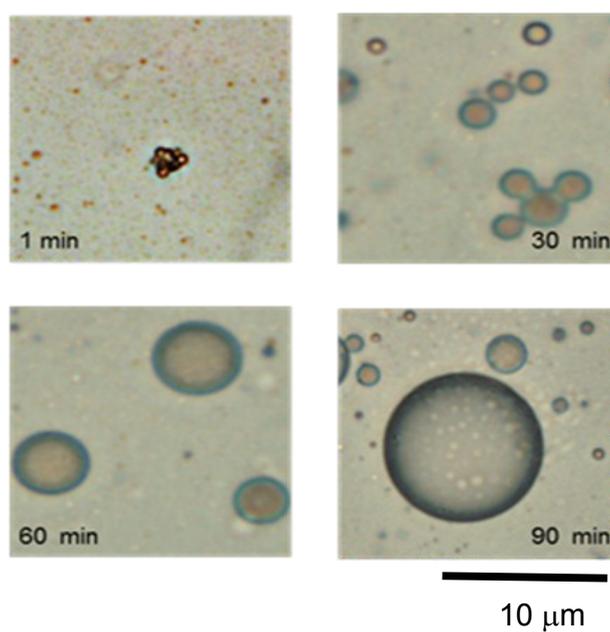
<sup>b</sup> Measured by dynamic light scattering.



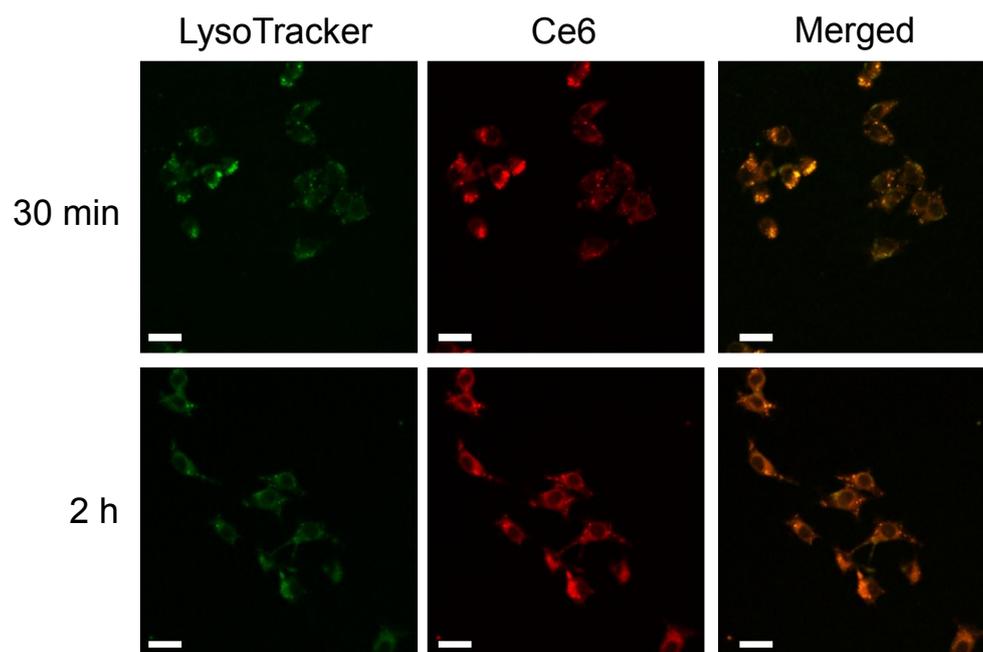
**Fig. S1** UV-Vis spectra of free Ce6, Ce6-BMN, and PEG-PAsp.



**Fig. S2** Time-dependent changes of the ratio of scattered light intensities (SLI/SLI<sub>0</sub> (%)) of Ce6-BMNs in the FBS-containing PBS solution (50% FBS).



**Fig. S3** Optical micrographs of CO<sub>2</sub>-generating profiles of submicron-size aggregates of Ce6-BMNs incubated in PBS (pH 6.4) for 90 min.



**Fig. S4** CLSM images of MCF-7 cells treated with LysoTracker (50 nM) and Ce6-BMNs. (Green fluorescence is related with LysoTracker; the red fluorescence is expressed by Ce6). Scale bar: 20  $\mu\text{m}$ .