Development of Tungsten Bronzes Nanorods for Redox-Enhanced Photoacoustic Imaging-guided Photothermal Therapy of Tumors

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Supplementary Figures

**Figure S1.** TEM images from a different zone of PEG-Na$_x$WO$_3$ NRs dispersed in water.

**Figure S2.** The digital photos of PEG-Na$_x$WO$_3$ dispersed in different aqueous solutions.
**Figure S3.** a) DLS size of PEG-$\text{Na}_x\text{WO}_3$ NRs dispersed in water. b) The DLS diameters of PEG-$\text{Na}_x\text{WO}_3$ NRs dispersed in water for 3, 7, and 14 days.

**Figure S4.** TEM images of PEG-$\text{Na}_x\text{WO}_3$ NRs from different zones reduced by GSH.
Figure S5. Relative viabilities of a) RAW 264.3 normal cells and b) HEK293 normal cells after incubation with different concentrations of PEG-Na$_x$WO$_3$ NRs.

Figure S6. *In vivo* PA images of 4T1 tumor-bearing mice before and after intravenous injection with PEG-Na$_x$WO$_3$ NRs at 1 h and 24 h p.i., respectively.
**Figure S7.** Body weight of mice after various treatments indicated.

**Figure S8.** H&E-stained tissues from major organs of mice after the intravenous injection of PEG-\(\text{Na}_x\text{GdWO}_3\) for one month. Scale bar: 50 \(\mu\text{m} \).