

Figure S1: CA4P vessel occlusion, continued. Videos are of tumors from mice receiving microbubbles as an ultrasound contrast agent t = 3 h after CA4P treatment or untreated control. Real-time microbubble perfusion into the middle tumor section of untreated (A) or CA4P-treated (B) mice. Microbubble perfusion at t = 20 s in each imaged section along the tumor in untreated (C) or CA4P-treated (D) mice.

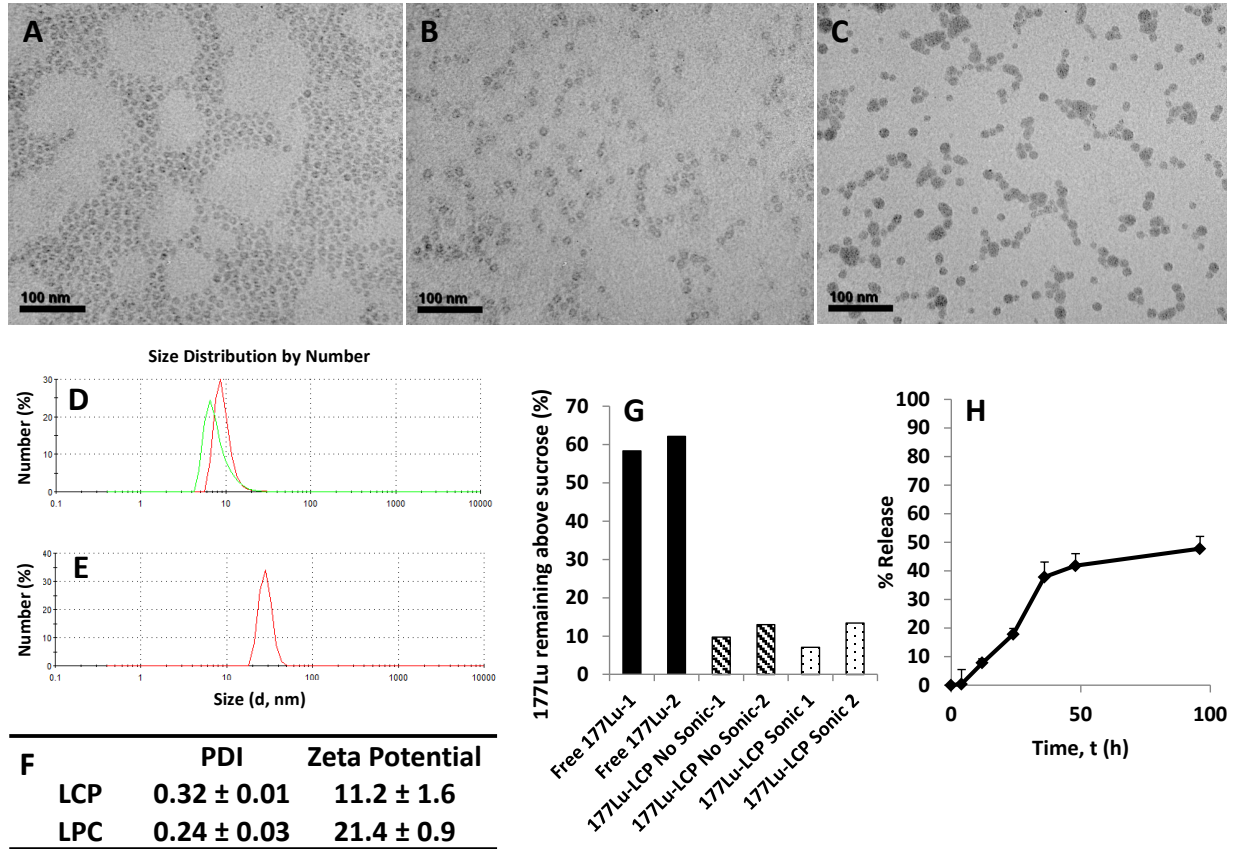


Figure S2: Nanoparticles were characterized using TEM and DLS. A) TEM image of ¹⁷⁷Lu-LCP cores; B) TEM image of ⁹⁰Y-LCP cores. C) TEM image of LPC cores. D) DLS number distribution of final LCP size; Red = ¹⁷⁷Lu-LCP, Green = ⁹⁰Y-LCP. E) DLS number distribution of final LPC nanoparticle size. F) PDI and Zeta Potential for LCP and LPC, n = 3. G) Quantification of ¹⁷⁷Lu remaining in top aqueous layer after sucrose gradient centrifugation; most free ¹⁷⁷Lu remained at the top while most LCP-encapsulated ¹⁷⁷Lu was centrifuged lower. There was no difference in this ¹⁷⁷Lu distribution between sonicated and non-sonicated LCP (p > 0.78). n = 2. H) Release profile of ¹⁷⁷Lu-LCP in tris-buffered saline at pH 7.4 and 37°C. n = 2.

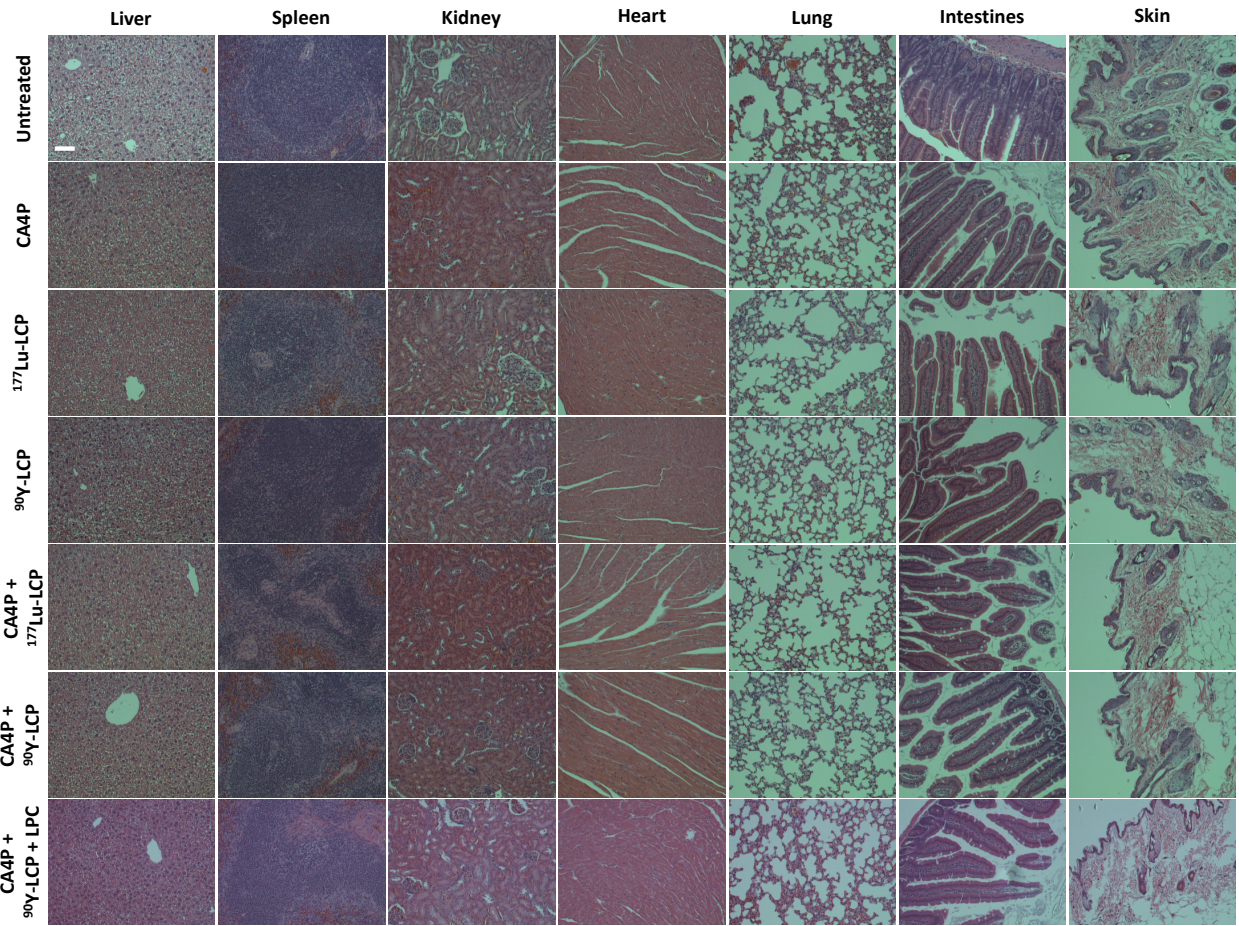


Fig S3: Healthy CD-1 mouse organs fixed, sectioned, and stained with hematoxylin and eosin 10 days after treatment to test cumulative toxicity. Scale bar = 150 μ m.