

Electronic Supplementary Information

Targeted CT imaging of human hepatocellular carcinoma using low-generation dendrimer-entrapped gold nanoparticles modified with lactobionic acid†

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Table S1. ζ -potential and hydrodynamic size of the LA-Au DENPs and nonLA-Au DENPs.

Samples	ζ -potential (mV)	hydrodynamic size (nm)	polydispersity index
LA-AuNPs	6.6 ± 0.3	480.5 ± 57.0	0.576 ± 0.087
nonLA-AuNPs	6.3 ± 0.5	471.5 ± 74.0	0.691 ± 0.093

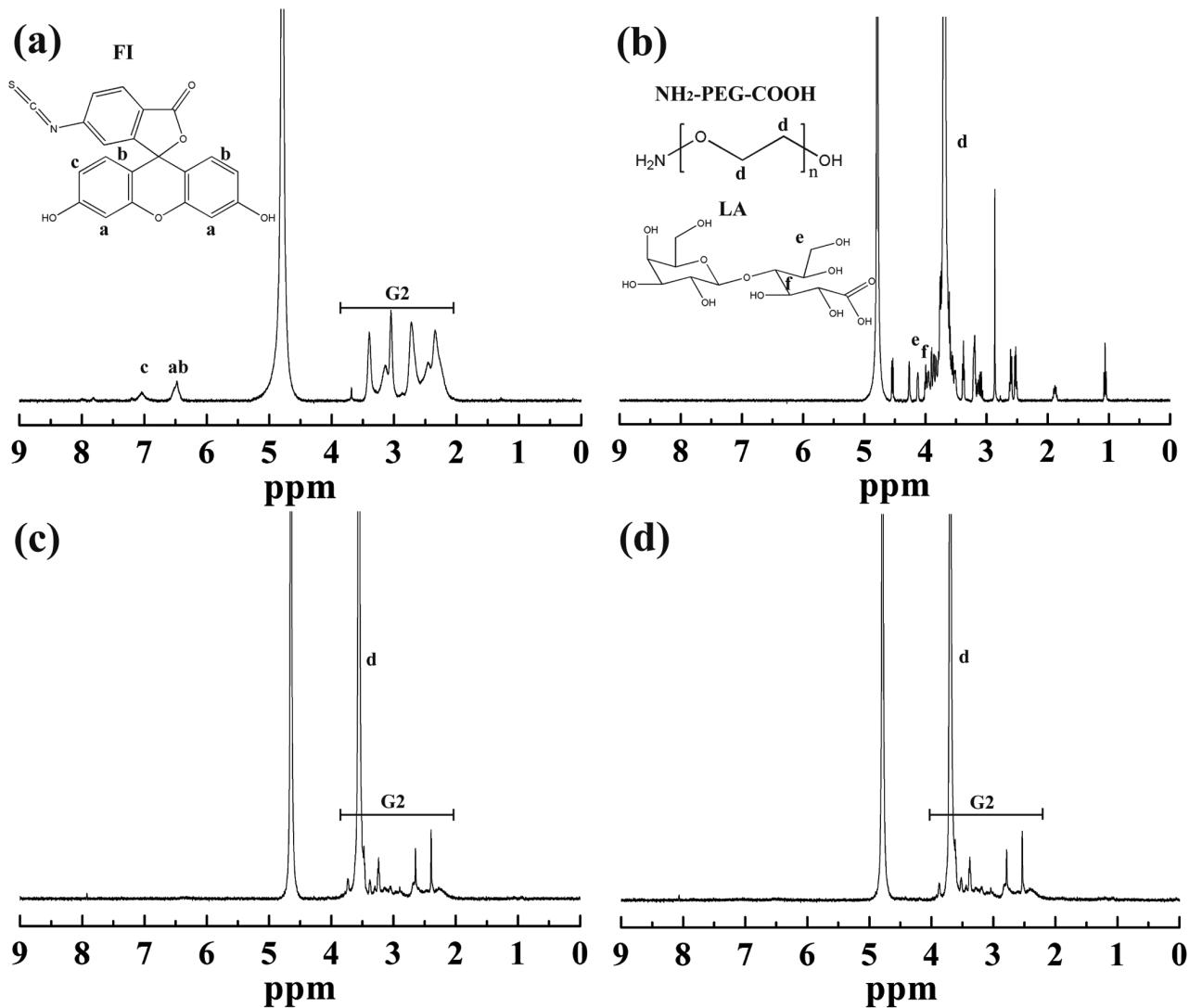


Figure S1. ¹H NMR spectra of (a) G2.NH₂-FI, (b) LA-PEG-COOH, (c) G2.NH₂-FI-PEG-LA, and (d) G2.NH₂-FI-*m*PEG.

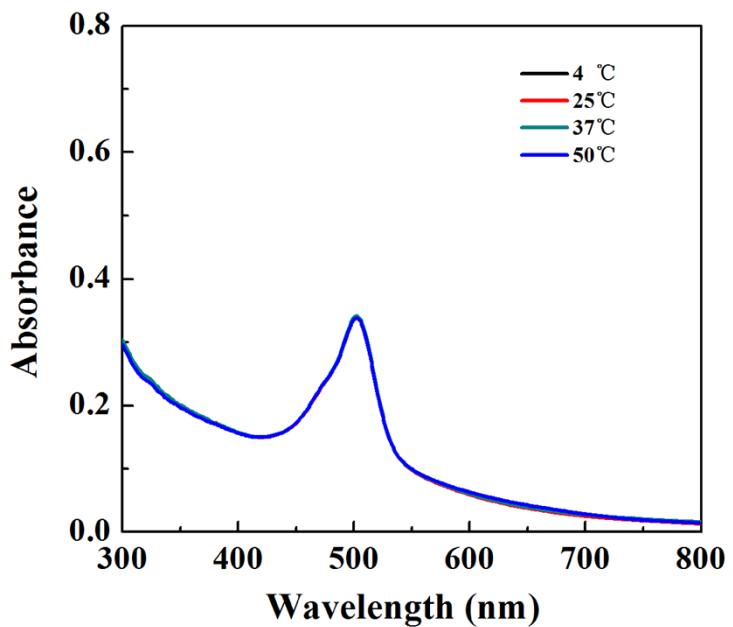


Figure S2. UV-vis spectra of the $\{(Au^0)_8\text{-G2.NH}_2\text{-FI-PEG-LA}\}$ DENPs under different temperatures.

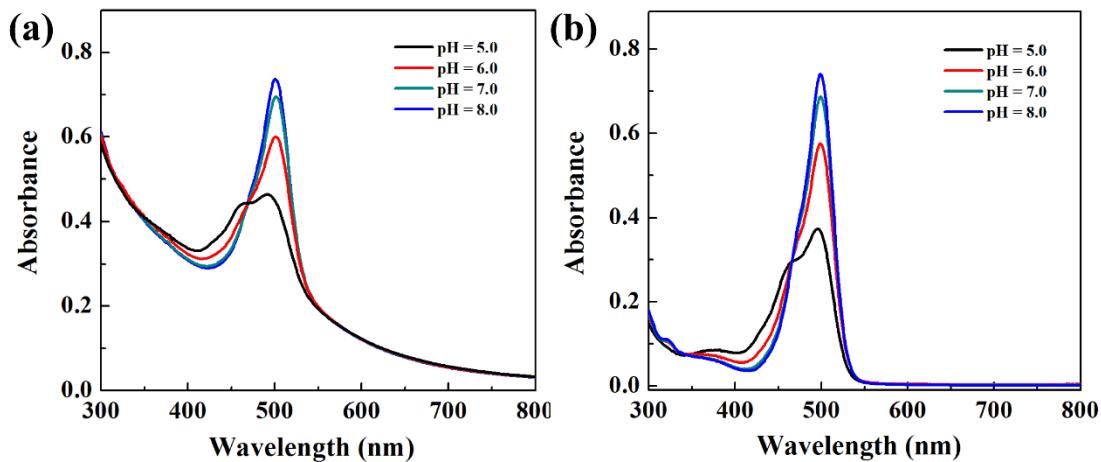


Figure S3. UV-vis spectra of the $\{(Au^0)_8\text{-G2.NH}_2\text{-FI-PEG-LA}\}$ DENPs (a) and the G2.NH₂-FI dendrimers (b) under different pH conditions.

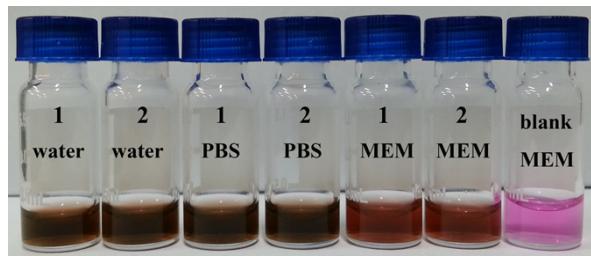


Figure S4. The photograph of the as-prepared (1) LA-Au DENPs and (2) nonLA-Au DENPs dispersed in different media for one month.

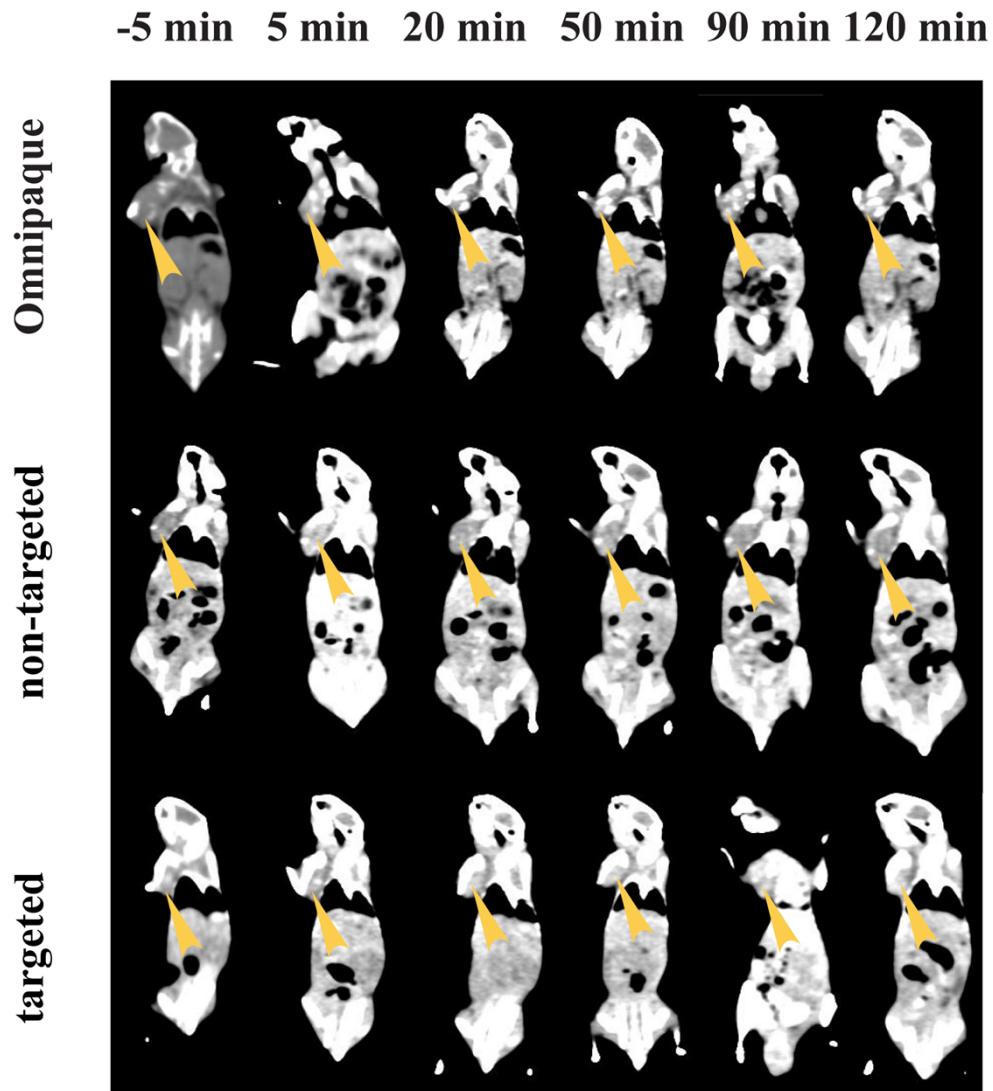


Figure S5. Coronal CT images of the HepG2 tumor model before and after intravenous injection of Omnipaque, LA-Au DENPs, and nonLA-Au DENPs, respectively. The yellow arrows point to the tumor area.

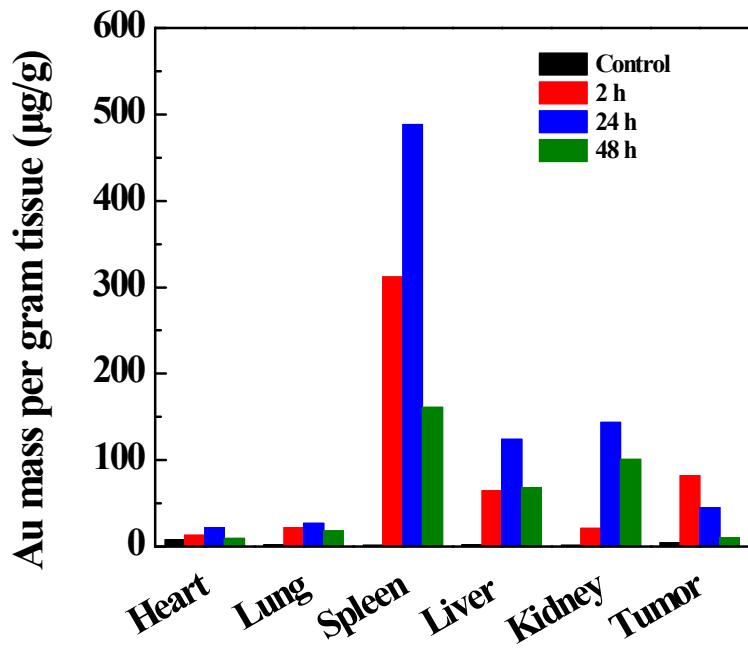


Figure S6. *In vivo* biodistribution of Au element in different organs and tumor at 2 h, 24 h, and 48 h post injection of the LA-Au DENPs.