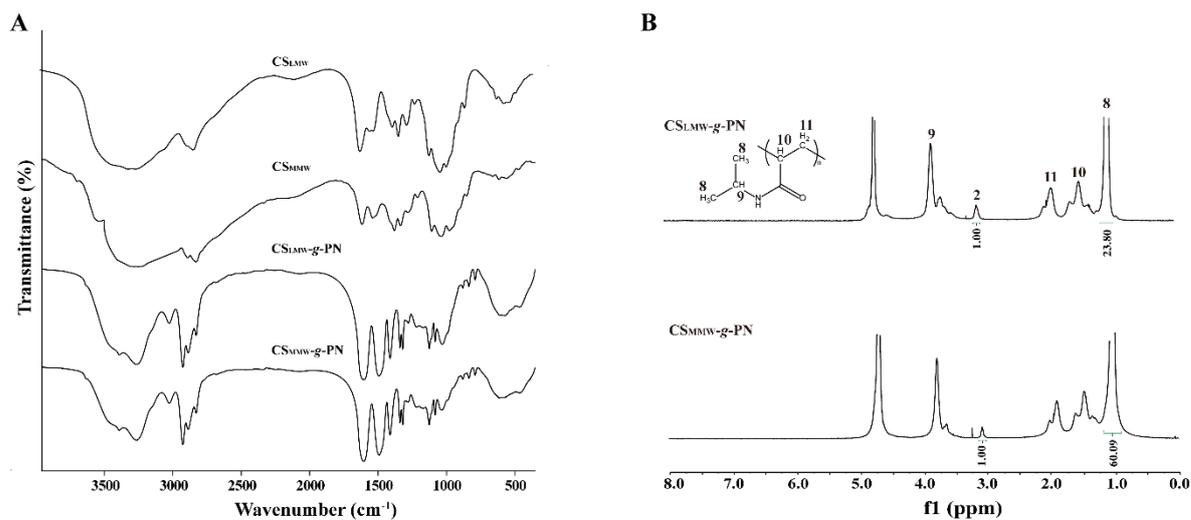


Figure S1. Schematic synthesis of CS-g-PN.



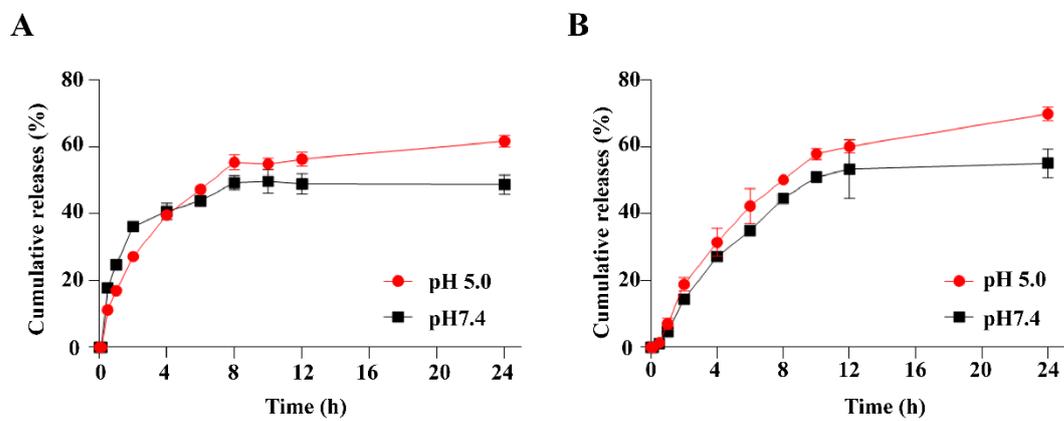


Figure S3. In vitro release profile of CUR@CS-NP. (A) CUR@CS_{LMW}-NP (B) CUR@CS_{MMW}-NP.

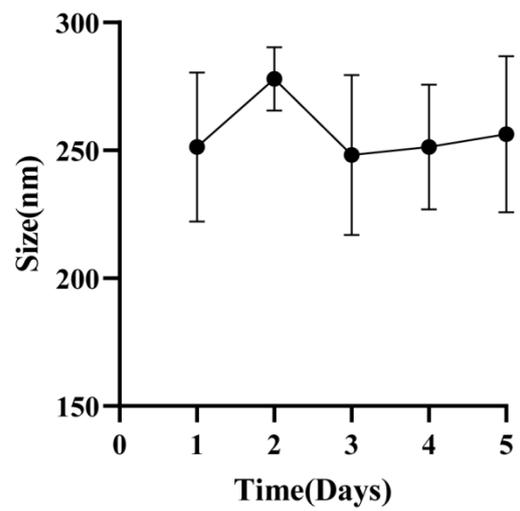


Figure S4. Colloidal stability of CUR@CS-NP@HA within 5 days.

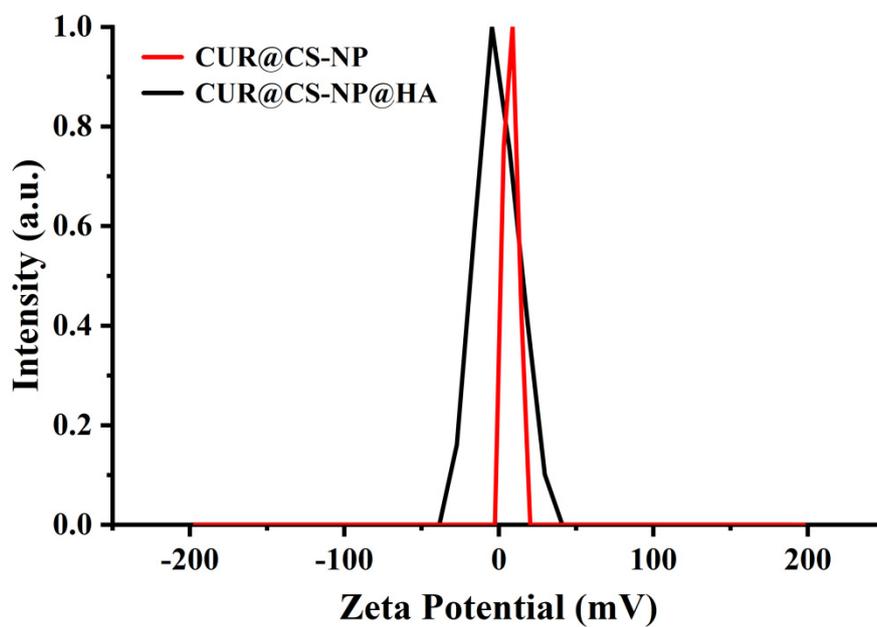


Figure S5. Zeta Potential distributions of CUR@CS-NP and CUR@CS-NP@HA.

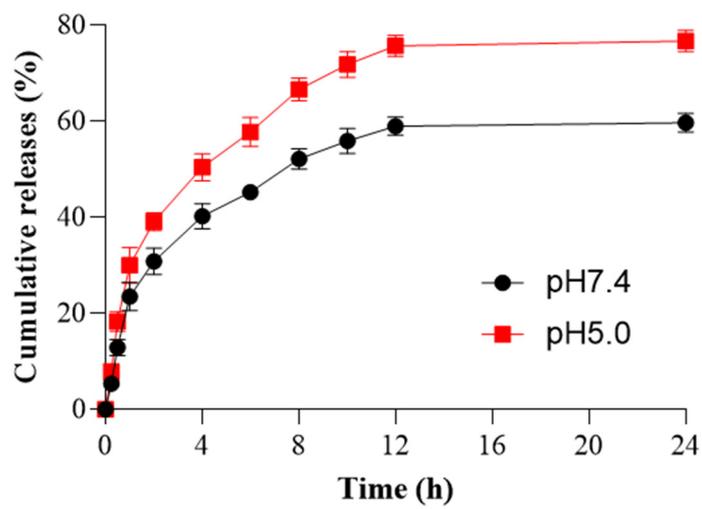


Figure S6. In vitro release profile of CUR@CS-NP@HA.

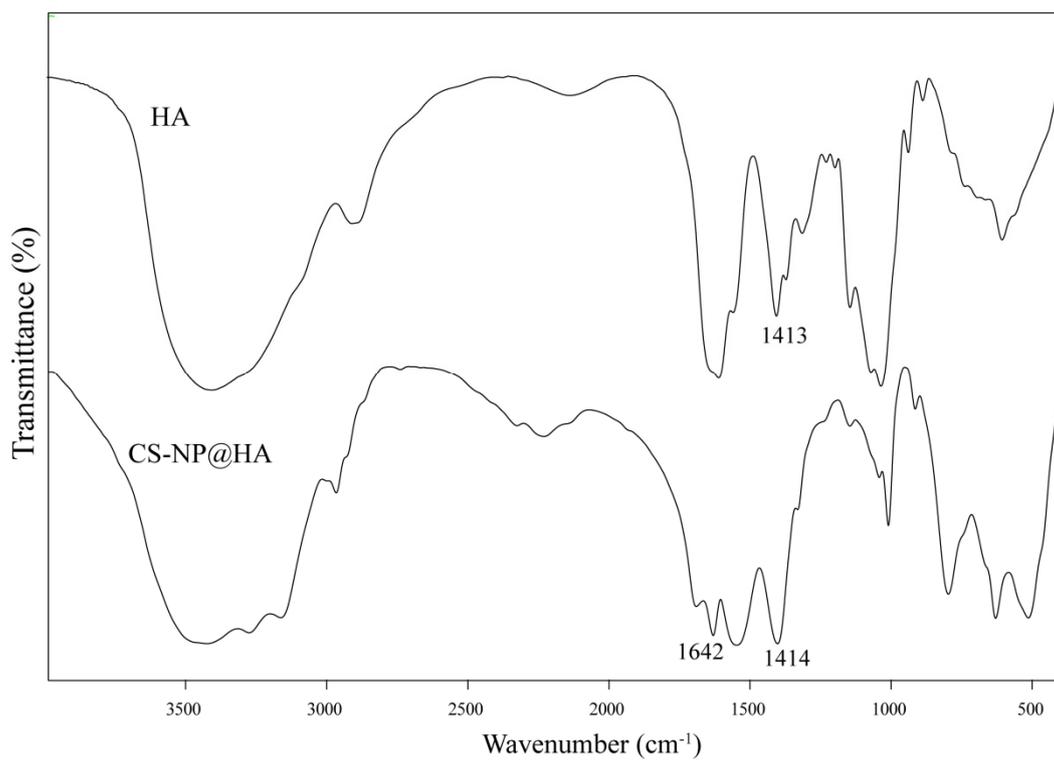


Figure S7. FT-IR spectra of HA and CS-NP@HA. Different from FT-IR spectrum of CS-g-PN, the amide bond absorption peak of CS at CS-NP@HA shifts to 1642 cm⁻¹, and the C=O (-COOH) symmetric stretching vibration peak of HA shifts from 1413 cm⁻¹ to 1414 cm⁻¹, all of which indicates HA interacting with CS-g-PN.

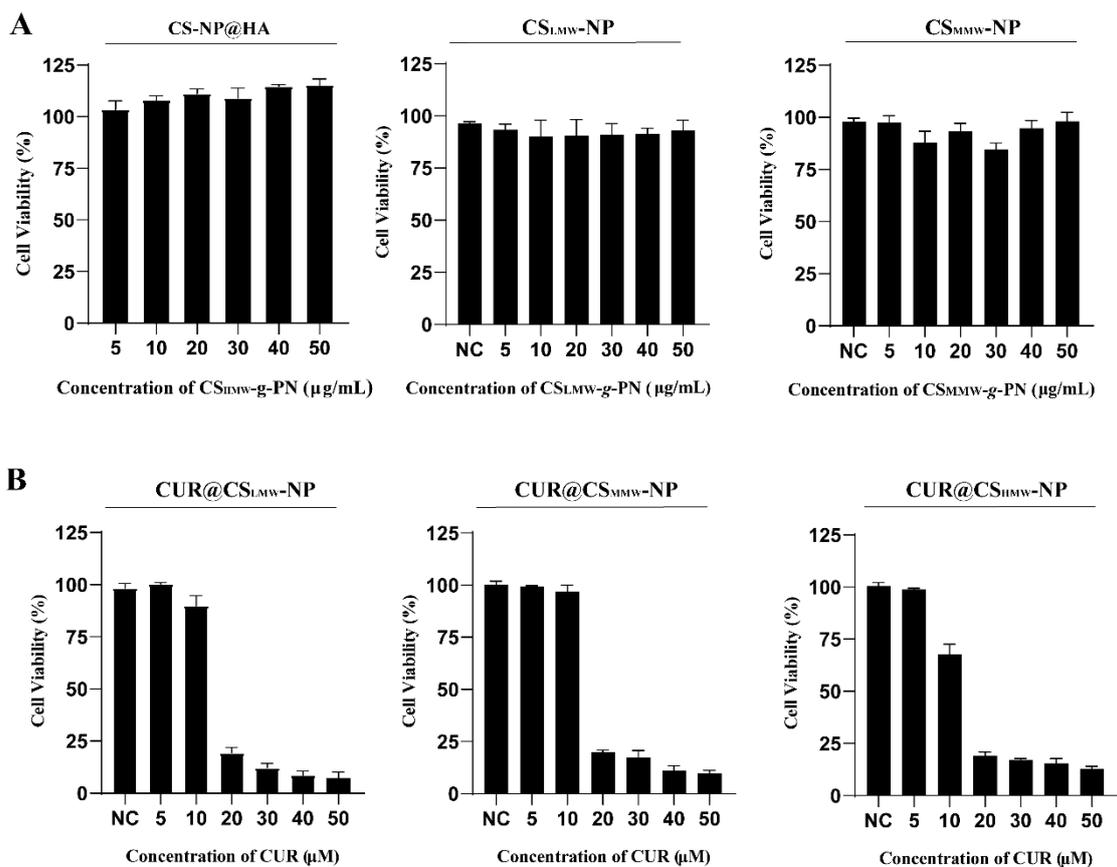


Figure S8. Cell cytotoxicity assay. (A) Cytotoxicity of blank NPs. (B) Cytotoxicity of CUR@CS_{LMW}-NP, CUR@CS_{MMW}-NP and CUR@CS_{HMW}-NP.

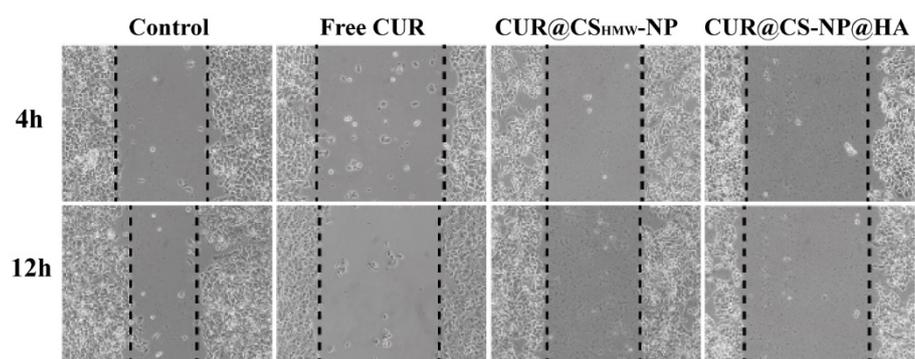


Figure S9. The migration of 4T1 cells treated with NPs in 4h and 12h.

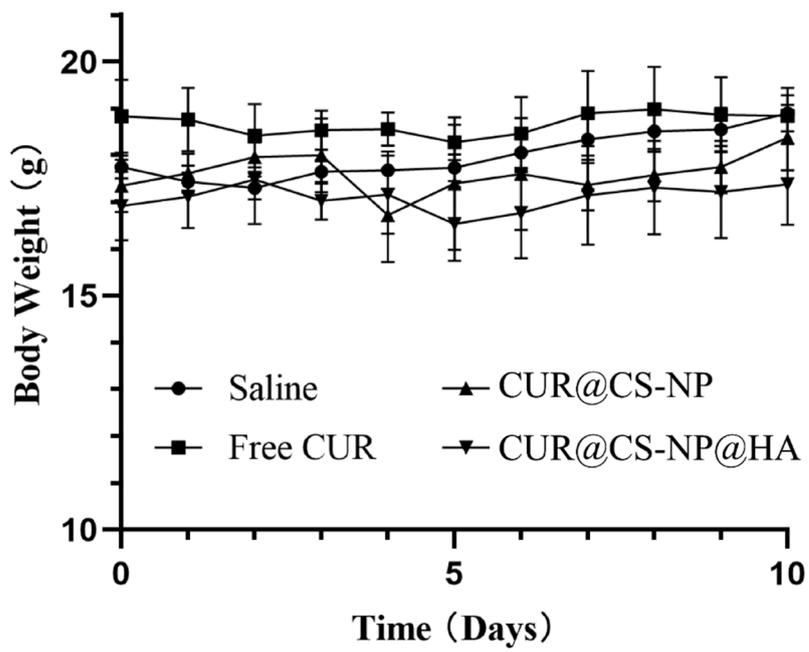


Figure S10. Body weight change in Balb/c mice over 10 days.

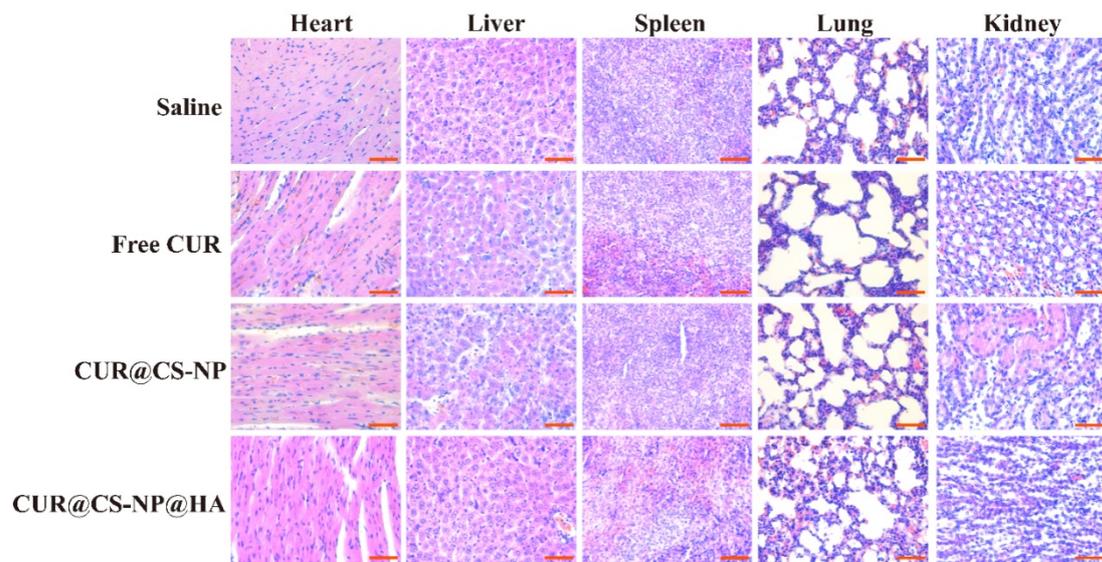


Figure S11. After 10 days of treatment, HE staining of heart, liver, spleen, lung and kidney tissues were taken from tumor-bearing Balb/c mice (scale bar=51 μ m).