

## Supplementary Materials

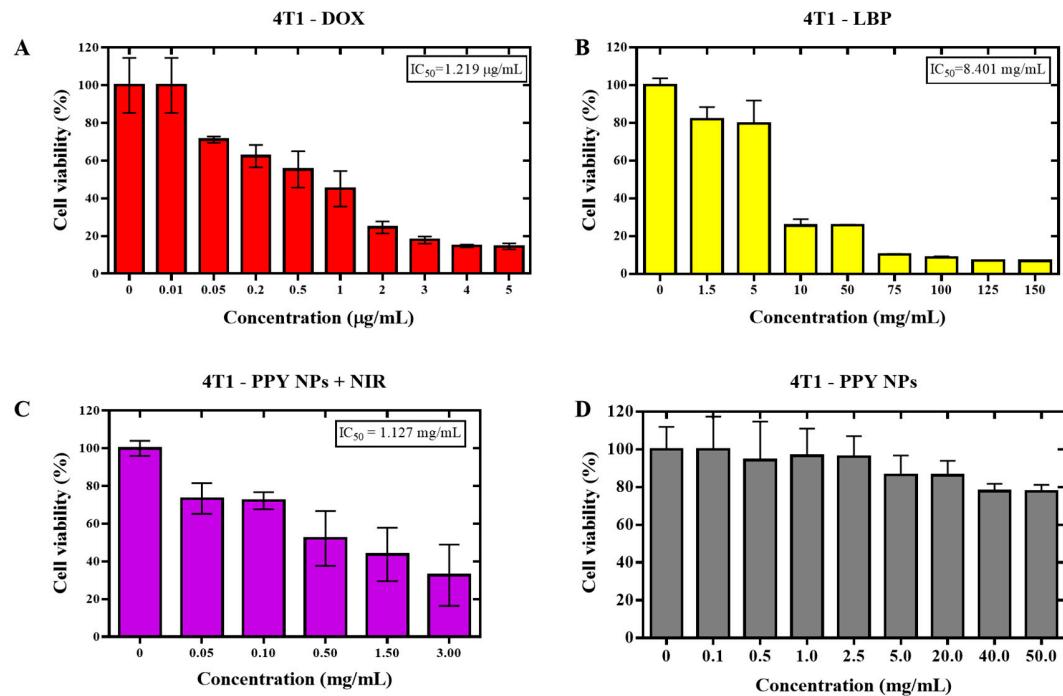


Figure S1: Cell viability of DOX, LBP, PPY NPs + NIR, PPY NPs against 4T1 cell line for incubation 72 h at 37°C, n = 5.

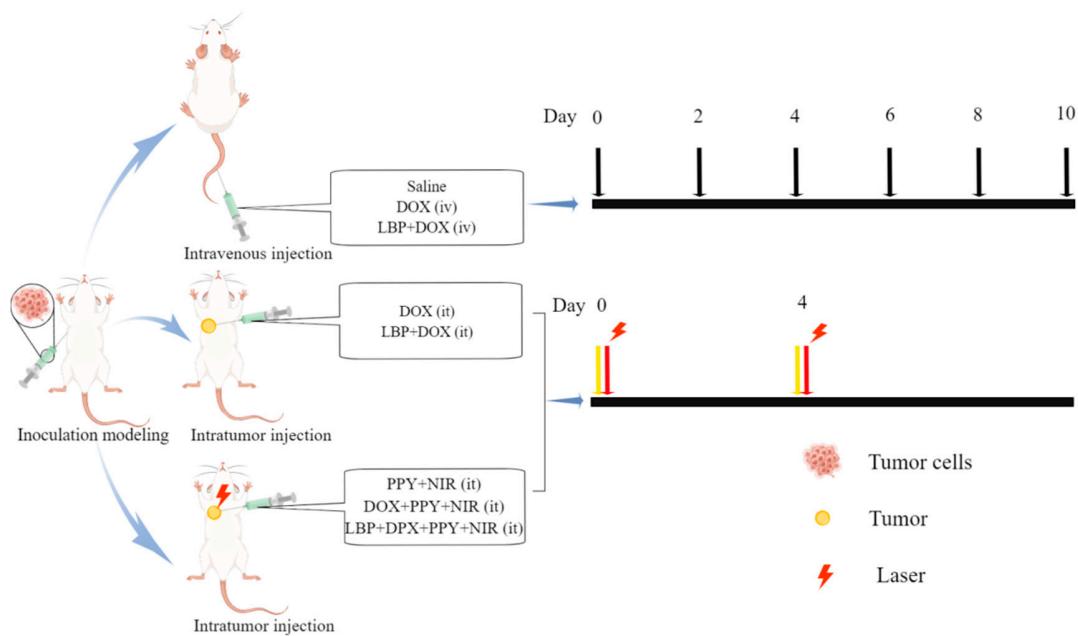


Figure S2: Treatment schedule scheme: intravenous injection and intratumoral injection  
 (This picture was drawn by Figdraw.);

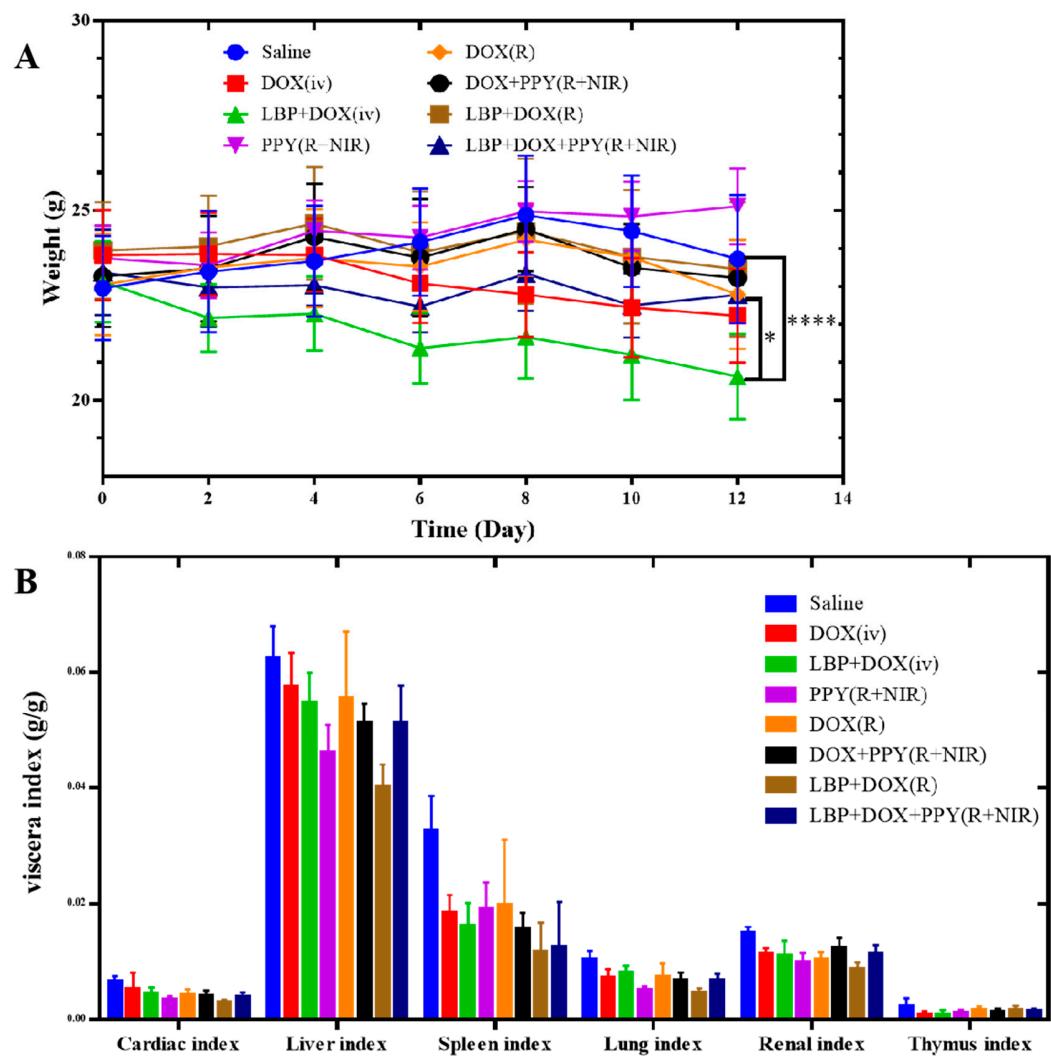


Figure S3: Changes of body weight (A) (mean  $\pm$  SD, n = 6); Organ index of 8 groups of animals, n = 6. (B).