

## Supplementary Information

### In vivo biodistribution and imaging

For in vivo biodistribution studies, both of ASDox-TSLs and CuDox-TSLs accumulated within the tumors at 4 hours after intravenous injection (Fig. S1.). As a result, we intratumorally injected AuNRs at 4 hours after TSLs injection to make sure they were accumulated in tumor tissue at the same time.

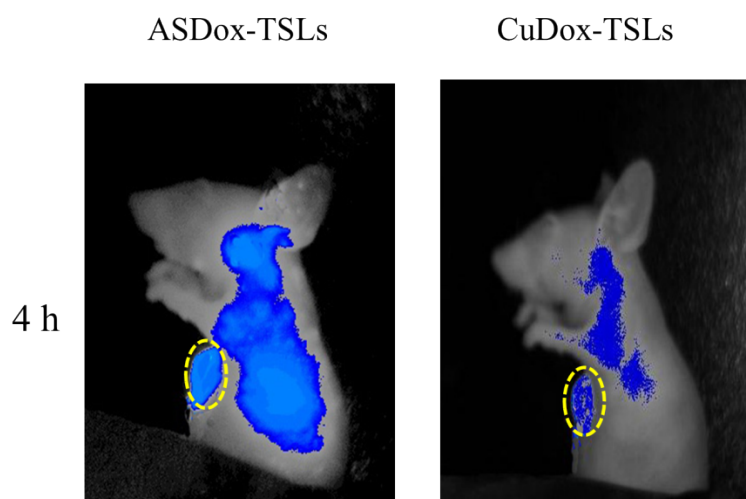


Fig. S1. In vivo Biodistribution of of Dox in MCF-7-bearing mice, 4 h after the injection of ASDox-TSLs or CuDox-TSLs.