

Appendix: Supplementary material

Tumor pH-triggered charge-reversal and redox-responsive nanoparticles for docetaxel delivery in hepatocellular carcinoma treatment

Fengqian Chen[†], Jinming Zhang[†], Lu Wang, Yitao Wang*, Meiwang Chen*

State Key Laboratory of Quality Research in Chinese Medicine, Institute of Chinese Medical Sciences, University of Macau, Macao 999078, China

[†] These authors contributed equally to the work

Tab. S1. Synthesis and characteristics of TPSS copolymers with various constituents

TPSS polymers	Molar ratio (TPGS-BAP: BAC:HD:piperazine)	Particle size (nm)			Zeta potential (mV)		
		pH 7.4	pH 6.5	10mM GSH	pH 7.4	pH 6.5	10mM GSH
Polymer 1	1:12:8:12	115.3±2.6	118.4±2.5	256.1±3.6	-25.6±5.2	-17.4±3.6	-28.4±3.7
Polymer 2	1:12:12:25	97.3±5.1	125.6±4.7	249.5±5.8	-31.5±6.3	+18.4±3.7	-25.6±6.8
Polymer 3	1:8:16:25	163.4±4.3	225.3±6.4	178.1±3.5	-28.4±3.7	+21.6±4.1	-24.7±4.6

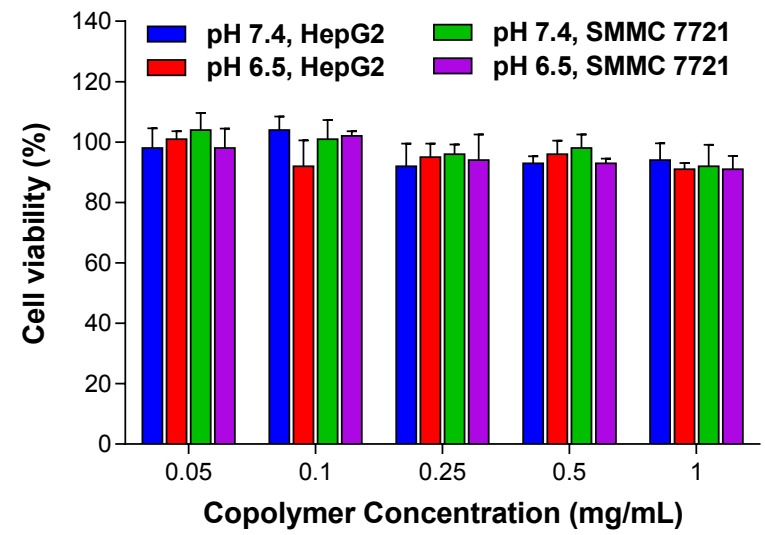


Fig.S1 Cytotoxicity of blank TPSS NPs against HepG2 and SMMC 7721 cells for 48h incubation