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Electronic Supplementary Information (ESI)

Dual-drug loaded nanoformulation with galactosamine homing moiety for liver-targeted

anticancer therapy

Nafees Muhammad, Xiaoyong Wang,* Kun Wang, Chengcheng Zhu, Zhenzhu Zhu, Yang Jiao and Zijian Guo*





Fig. S1 ¹H-NMR (A), ¹³C-NMR (B), and ¹⁹⁵Pt-NMR (C) spectra of PPD in DMSO-d₆.



Fig. S2 ESI-MS spectrum of PPD. Attributions: 525.50, [M + Na]⁺; 1026.75, [2M + Na]⁺; 503.17, [M + H]⁺.



Fig. S3 Cyclic voltammogram of PPD in DMF using 0.1 M (n-Bu₄N)PF₆ as supporting electrolyte and Ag/AgCl as a reference electrode. Scan rate = 100 mV s^{-1} .

NPs	Size (nm)	PDI	Zeta (mV)	PPD (µg/mg)	α-TOS (μg/mg)
PNP	142	0.131	-22.6	52 ± 0.7	/
VNP	140	0.135	-21	/	35 ± 0.5
BNP	136	0.137	-23.5	/	/

Table S1 Characterization of PNP, VNP and BNP.

Table S2 In vitro cytotoxicity (IC₅₀, µM) of free drugs against SMMC-7721 liver cancer cells.

Free drug	48 h	72 h	
PPD	8.7	3.1	
α -TOS	40.2	35	



Fig. S4 Flow cytometric analysis of SMMC-7721 cells after incubation with DDNP0.1 and G-DDNP respectively for 48 h and subsequent staining with Annexin V and PI.