

***Supporting Information***

**Treatment of Lung Cancer by Peptide-Modified Liposomal Irinotecan Endowed  
with Tumor Penetration and NF-κB Inhibitory Activities**

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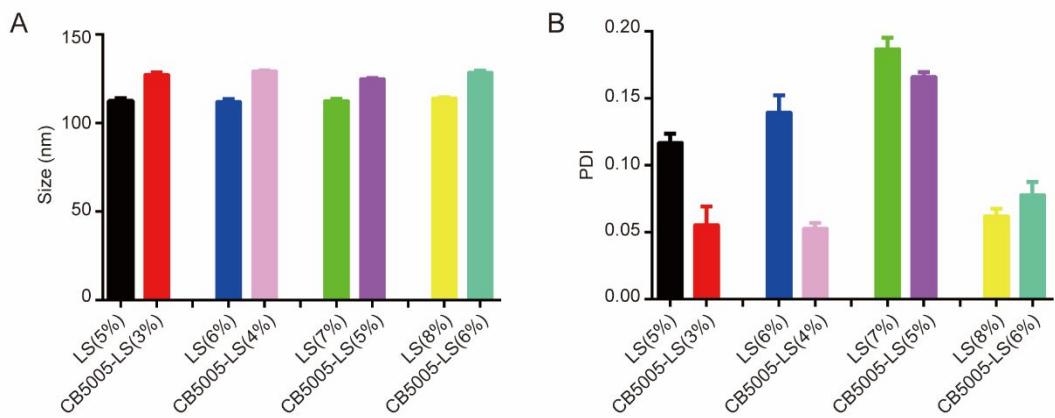
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**Table S1** Characterization of the IRI-loaded liposomes prepared by thin-film hydration method

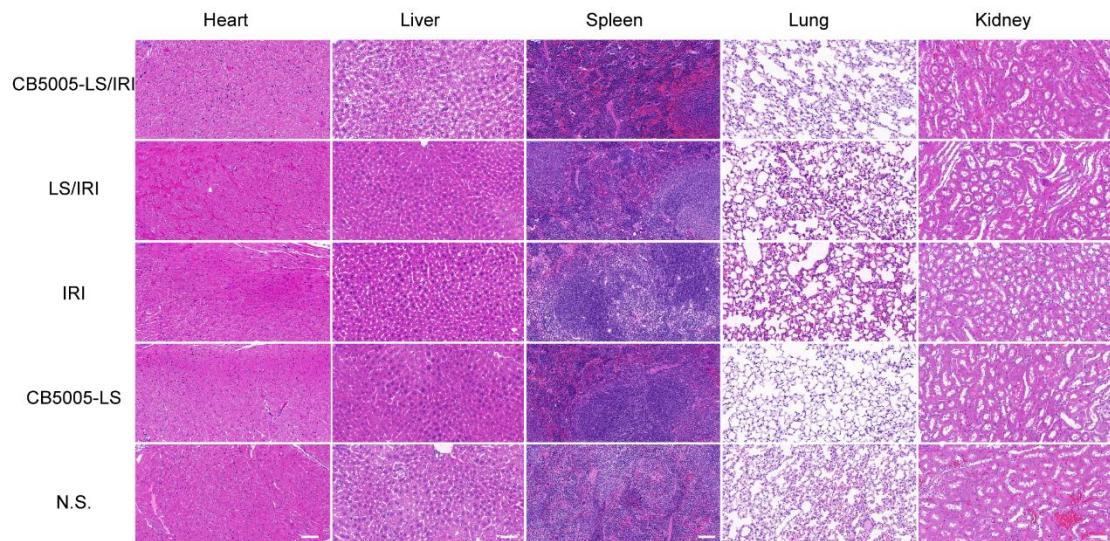
No.	HSPC	EPC	Cholesterol	mPEG <sub>2000</sub> -DSPE	CB5005-PEG <sub>3400</sub> -DSPE	Size (nm)	PDI	Encapsulation efficiency (%)
TF 1-1	62	—	33	5	—	116.5±0.5	0.089±0.008	49.3
TF 1-2	62	—	33	3	2	127.3±0.7	0.103±0.023	<10
TF 2-1	—	62	33	5	—	117.2±0.3	0.083±0.003	43.4
TF 2-2	—	62	33	3	2	110.3±0.8	0.111±0.007	<10
TF 3-1	52	—	43	5	—	116.9±0.4	0.093±0.006	49.5
TF 3-2	52	—	43	3	2	128.2±0.7	0.108±0.008	<10
TF 4-1	—	52	43	5	—	112.6±0.5	0.086±0.006	46.5
TF 4-2	—	52	43	3	2	130.4±0.5	0.124±0.038	<10

**Table S2** Characterization of the IRI-loaded liposomes prepared by ethanol injection method

No.	HSPC	EPC	Cholesterol	mPEG <sub>2000</sub> -DSPE	CB5005-PEG <sub>3400</sub> -DSPE	Size (nm)	PDI	Encapsulation efficiency (%)
EI 1-1	62	—	33	5	—	112.6±0.7	0.039±0.002	64.2
EI 1-2	62	—	33	3	2	124.1±0.6	0.248±0.030	28.5
EI 2-1	—	62	33	5	—	111.4±0.4	0.079±0.003	80.3
EI 2-2	—	62	33	3	2	121.4±0.8	0.111±0.009	34.7
EI 3-1	52	—	43	5	—	119.5±0.5	0.031±0.005	83.8
EI 3-2	52	—	43	3	2	125.2±0.7	0.166±0.036	65.7
EI 4-1	—	52	43	5	—	117.2±0.7	0.086±0.006	51.4
EI 4-2	—	52	43	3	2	128.9±0.4	0.230±0.021	31.3



**Figure S1.** The particle size (A) and polydispersity index (PDI, B) of liposomes containing different proportions of PEGylated lipid (n=3).



**Figure S2.** Hematoxylin-eosin stained sections of major organs from the mice after treatment. Scale bar=50  $\mu\text{m}$  (n=3).