

## SUPPORTING INFORMATION

### **Targeted drug delivery utilizing protein-like molecular architecture**

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**Supporting Information Table.** Liposome sizes after 30 days.

Liposome Formulation	Liposome Diameter (nm)		
	4 °C	25 °C	37 °C
DSPG:DSPC:Cholesterol (1:4:5)	125 ± 17	115 ± 5	124 ± 9
DSPG:DPPC:Cholesterol (1:4:5)	118 ± 8	126 ± 13	119 ± 7
DSPG:DSPC:Cholesterol:PA (1:4:5:0.1)	128 ± 5	125 ± 11	117 ± 9
DSPG:DPPC:Cholesterol:PA (1:4:5:0.1)	117 ± 15	120 ± 7	130 ± 10

## SUPPORTING INFORMATION FIGURE LEGENDS

**Figure S1.** Microscope images of cellular fluorophore accumulation based on non-targeted liposome delivery. Delivery of rhodamine was monitored as a function of time for (left panel) human metastatic melanoma cells (M14#5), (middle panel) normal fibroblasts from a metastatic melanoma patient (Hs895Sk), and (right panel) normal foreskin fibroblasts (BJ).

**Figure S2.** Microscope images of inhibition of rhodamine incorporation into normal foreskin fibroblasts (BJ). Cells were initially treated with 0 (far left panel), 25 (second from left panel), 50 (second from right panel), or 100 (far right panel)  $\mu\text{M}$  exogenous  $\alpha 1(\text{IV})1263\text{-}1277$  THP for 30 min, followed by treatment with  $\alpha 1(\text{IV})1263\text{-}1277$  PA liposomes.

**Figure S3.** Microscope images of inhibition of rhodamine incorporation into fibroblasts from a metastatic melanoma patient (Hs895Sk). Cells were initially treated with 0 (far left panel), 25 (second from left panel), 50 (second from right panel), or 100 (far right panel)  $\mu\text{M}$  exogenous  $\alpha 1(\text{IV})1263\text{-}1277$  THP for 30 min, followed by treatment with  $\alpha 1(\text{IV})1263\text{-}1277$  PA liposomes.

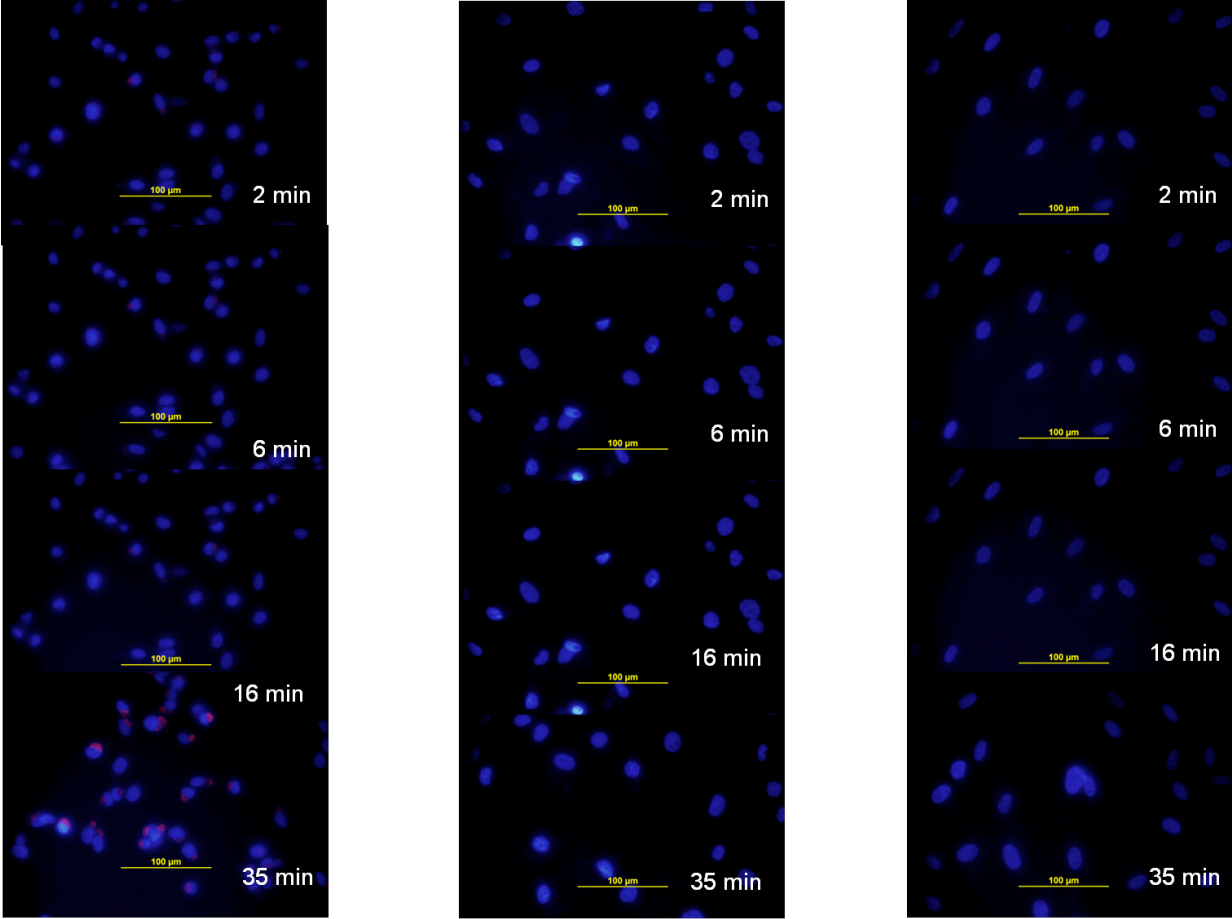


Figure S1

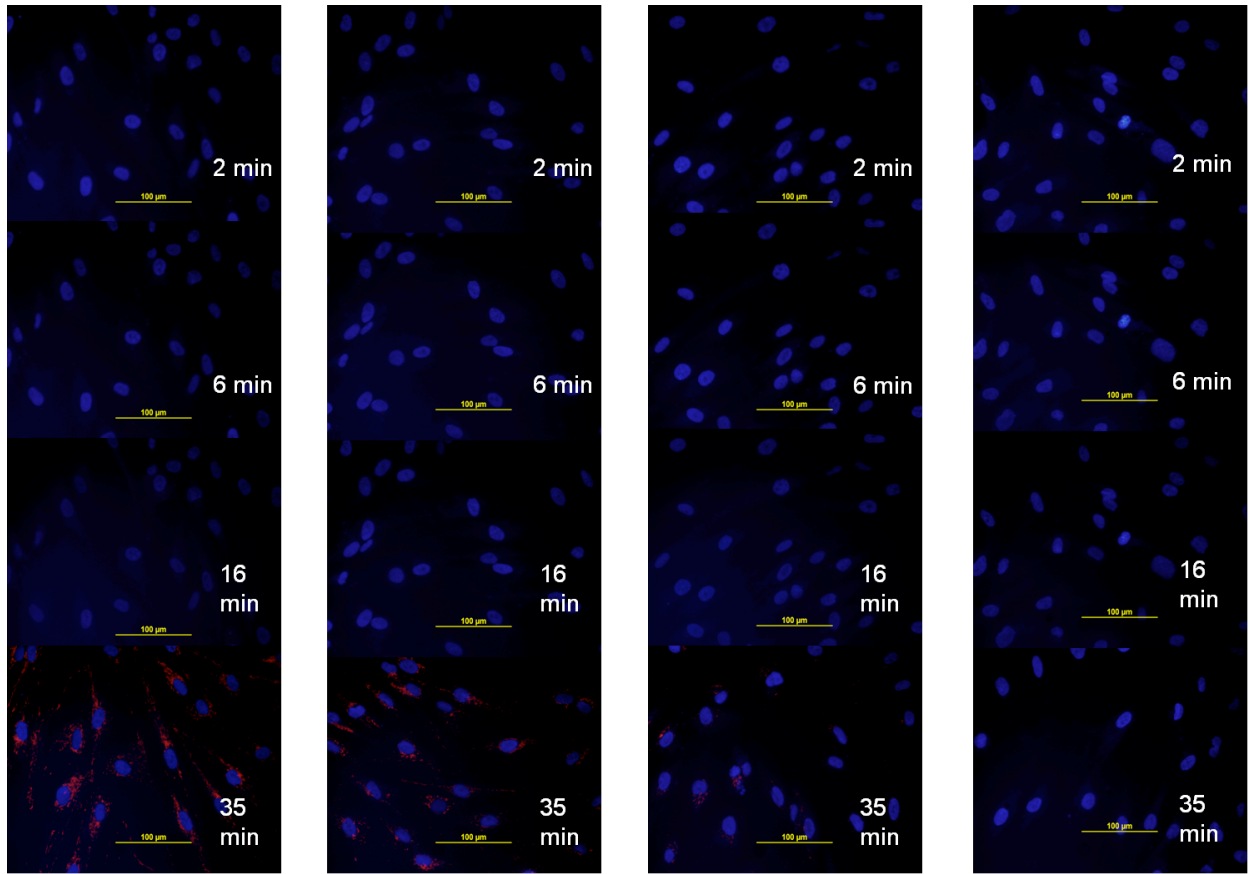


Figure S2

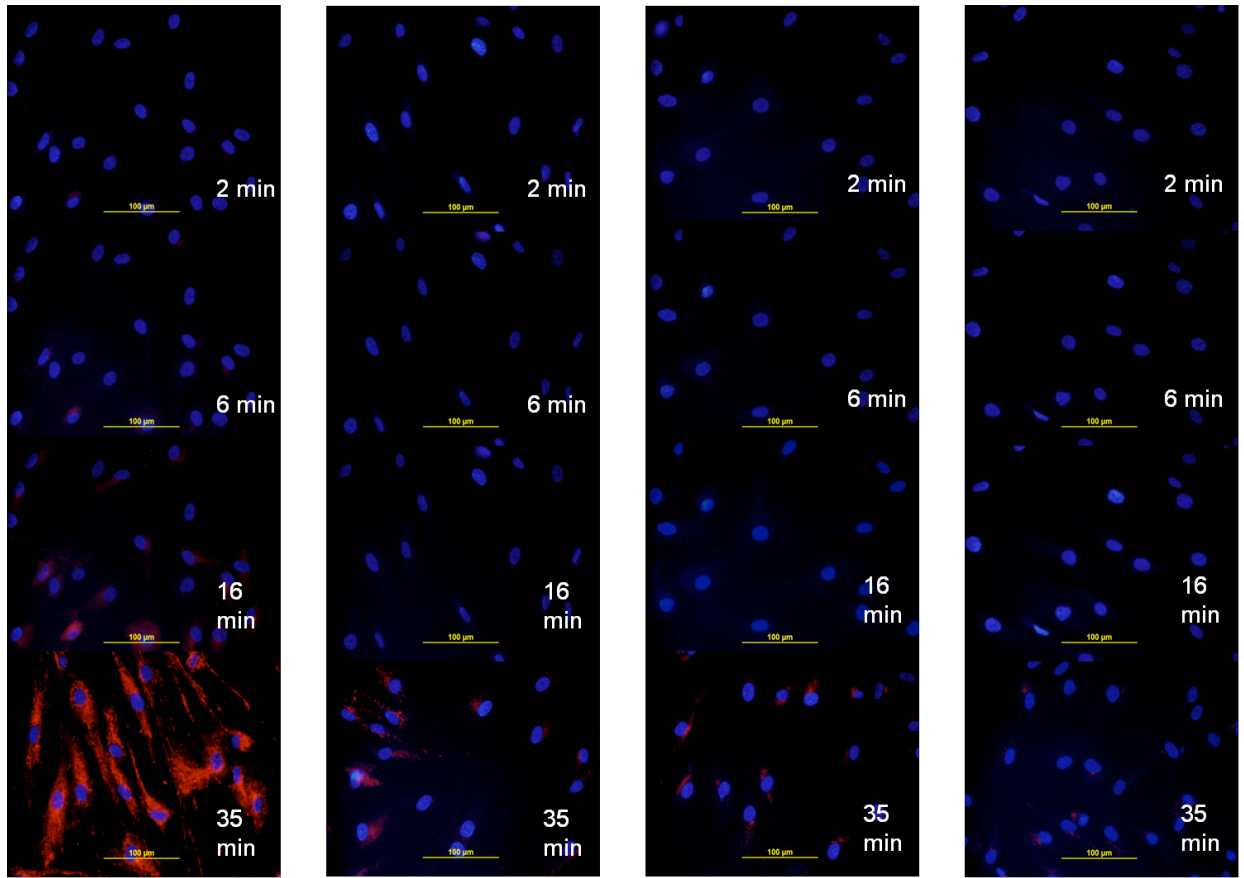


Figure S3