

Figure S1. Particle size distribution of APX-NLC.

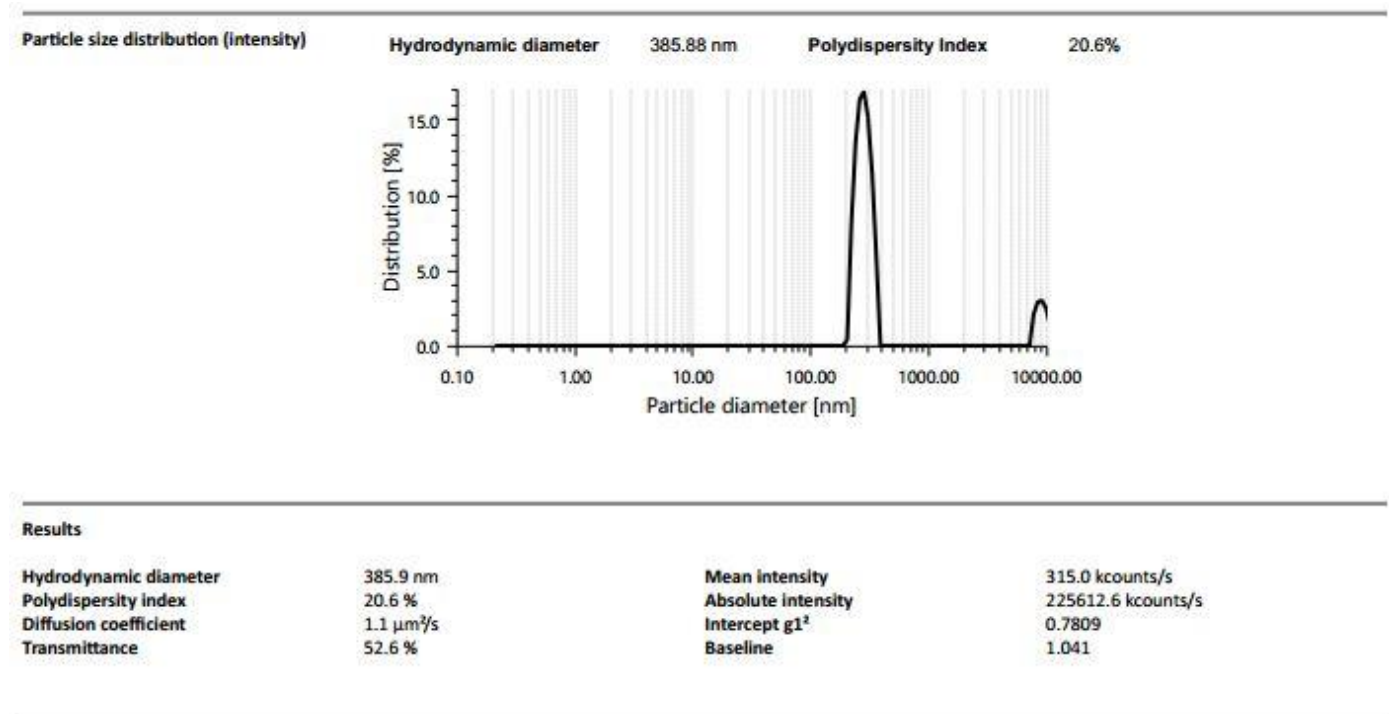


Figure S2. Particle size distribution of APX-PEG-NLC.

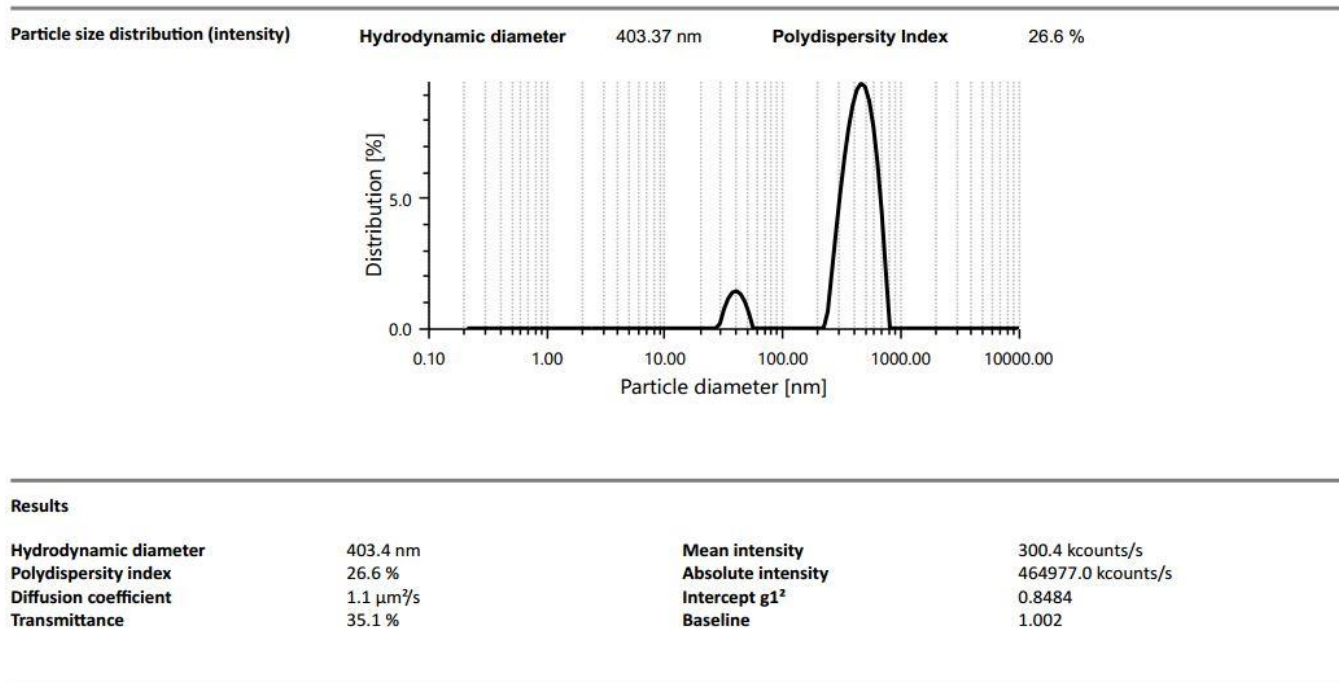


Figure S3. Particle size distribution of APX-Ch-NLC.

Table S1. Estimated release constants for different kinetic models of APX-loaded nanovesicles

Formula		Zero order	First order	Second order	Higuchi diffusion model	Hixon	Baker
APX-NLC	m_0	1.28 mg					
	k	2.81976	-0.0710	0.00212	18.2022	0.07923	0.00944
APX-PEG-NLC	m_0	1.36 mg					
	k	2.58081	-0.0522	0.0011	16.263	0.0632	0.0064
APX-Ch-NLC	m_0	1.37 mg					
	k	2.3612	-0.0433	0.0008	14.925	0.0543	0.005

Note: m_0 is the initial amount of drug in 3-ml sample filled in the dialysis bag (calculated according to EE% of each formulation) and k is the release rate constant for each model.

Table S2. Korsmeyer-Peppas constants for different APX-loaded nanovesicles

	APX-NLC	APX-PEG-NLC	APX-Ch-NLC
n	0.48955	0.51157	0.5062
K_{kp}	0.0312	0.0225	0.0214

Note: n is the diffusional exponent ($n \leq 0.5$: Fickian diffusion, $n = 0.5-1$: Non-fickian release.) and K_{kp} is the release rate constant for Krosmeier-Peppas model.