

Table S1. The particle size, zeta potential and PDI results of liposomes

	particle size (nm)	PDI (%)	zeta potential (mV)
Empty-Lip	64.5 ± 4.96	0.25	-15.2 ± 1.1
FC-DP-Lip	92.60 ± 0.88	0.23	-36.0 ± 2.6

Table S2. The IC₅₀ values of FC-DP-Lip and 5-FU in HT-29, HCT-116 and HGC-27 cell lines in vitro (μg/mL)

	HT-29	HCT-116	HGC-27
FC-DP-Lip	5.03	12.53	2.90
5-FU	17.42	23.73	5.01

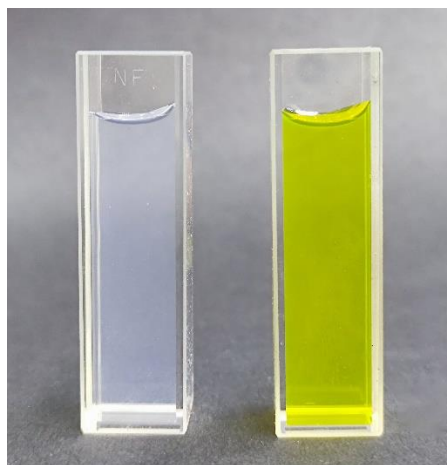


Figure S1. Optical photograph of the appearance of Empty-Lip (left) and FC-DP-Lip (right).

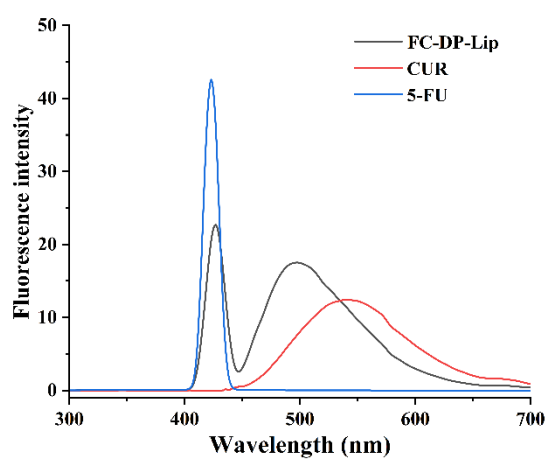


Figure S2. Fluorescence emission spectra of 5-FU, CUR and FC-DP-Lip

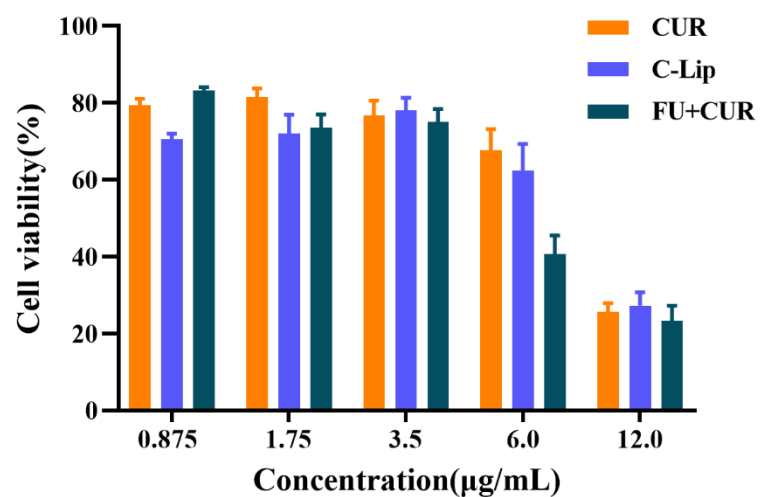


Figure S3. In vitro cytotoxicity results of CUR, C-Lip and 5-FU on HCT-116 (n=3). The administered concentrations were calculated based on CUR content. Bar indicate means \pm SD.