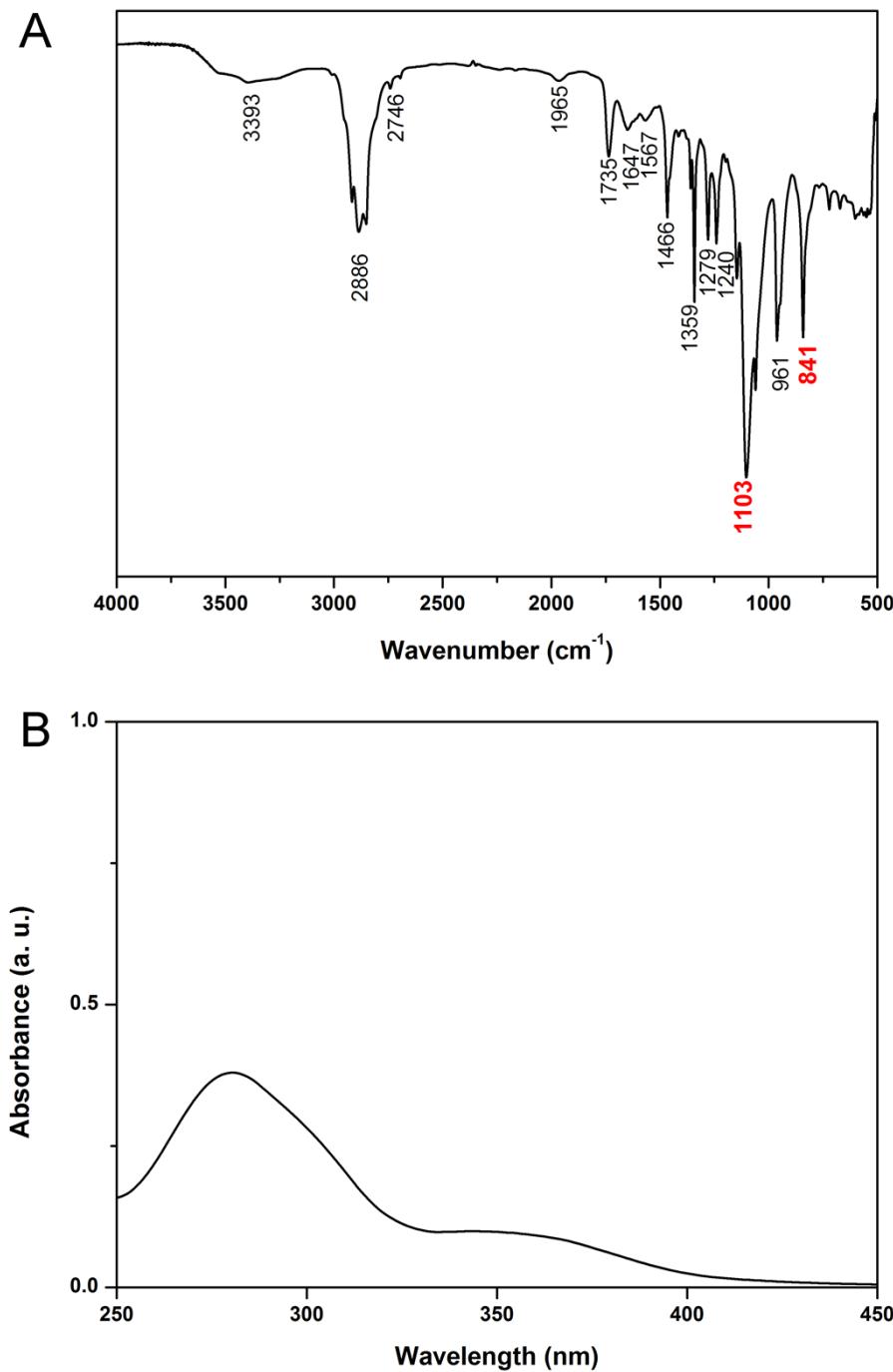


Supporting Information



Supplementary Figure S1. (A) FTIR spectra and (B) UV-vis absorption spectra of the drug-free FA-micelles.

As shown in FTIR spectra (Figure S1A), the peak at 1,103 cm⁻¹ in the drug-free FA-micelles indicated the C-O-C stretching vibration native to the structure of PEG. The peak at 842 cm⁻¹ in the drug-free FA-micelles was possibly assigned to C-H out-plane bending for the aromatic rings native to the structure of FA. Additionally, as seen in UV-vis spectrum of the drug-free FA-micelles (Figure S1B), a profound absorption peak around 280 nm was observed native to the aromatic ring structure of FA. Thus, in terms of the drug-free FA-micelles, these results testified to the presence of PEG and FA.

Table 1. Particle size, zeta potential, and drug loading content of the MMC/HCPT loaded micelles and MMC/HCPT loaded FA-micelles in water determined by DLS. Error bars indicated S.D. (n =6).

	Particle Size (nm)	Zeta Potential (mV)	MMC drug loading content (%)	HCPT drug loading content (%)
MMC/HCPT loaded micelles	39.2±3.1	-38.6±3.5	7.7±0.9	3.7±0.3
MMC/HCPT loaded FA- micelles	43.3±2.6	-34.7±2.9	7.4±0.7	3.6±0.5

Table 2. Pharmacokinetic parameters of MMC in rats after intravenous injection of the free MMC plus HCPT, MMC/HCPT loaded micelles, and MMC/HCPT loaded FA-micelles. Error bars indicated S.D. (n =6).

	free MMC plus HCPT	MMC/HCP T loaded micelles	MMC/HCP T loaded FA-micelles
t _{1/2} (h)	0.32±0.03	3.61±0.35 ^a	3.73±0.28 ^{a,b}
AUC _{0-t} ($\mu\text{g}^*\text{h}^*\text{mL}^{-1}$)	0.84±0.11	7.23±1.07	7.64±1.21
AUC _{0-∞} ($\mu\text{g}^*\text{h}^*\text{mL}^{-1}$)	0.86±0.07	7.49±1.13	7.97±1.38

MRT _{0-t} (h)	0.34±0.08	4.01±0.29	4.20±0.37
MRT _{0-∞} (h)	0.38±0.07	4.89±0.55	5.22±0.41
CL (L*h ⁻¹)	3.76±0.98	0.44±0.08	0.41±0.07

^aP <0.05 vs free MMC plus HCPT. ^bP > 0.05 vs MMC/HCPT loaded micelles.

Table 3. Pharmacokinetic parameters of HCPT in rats after intravenous injection of the free MMC plus HCPT, MMC/HCPT loaded micelles, and MMC/HCPT loaded FA-micelles. Error bars indicated S.D. (n =6).

	free MMC plus HCPT	MMC/HCP T loaded micelles	MMC/HCP T loaded FA-micelles
t _{1/2β} (h)	0.30±0.04	3.71±0.27 ^a	3.99±0.38 ^{a,b}
AUC _{0-t} (μg*h*mL ⁻¹)	0.22±0.03	2.92±0.51	3.09±0.72
AUC _{0-∞} (μg*h*mL ⁻¹)	0.23±0.05	3.03±0.58	3.26±0.63
MRT _{0-t} (h)	0.26±0.07	4.50±0.53	4.87±0.81
MRT _{0-∞} (h)	0.30±0.07	5.38±0.89	6.09±1.12
CL (L*h ⁻¹)	13.68±2.50	1.05±0.17	0.98±0.14

^aP <0.05 vs free MMC plus HCPT. ^bP > 0.05 vs MMC/HCPT loaded micelles.