pharmaceutics

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Supplementary Information

A Moexitecan Magnetic Liposomal Strategy for Ferroptosis-Enhanced Chemotherapy

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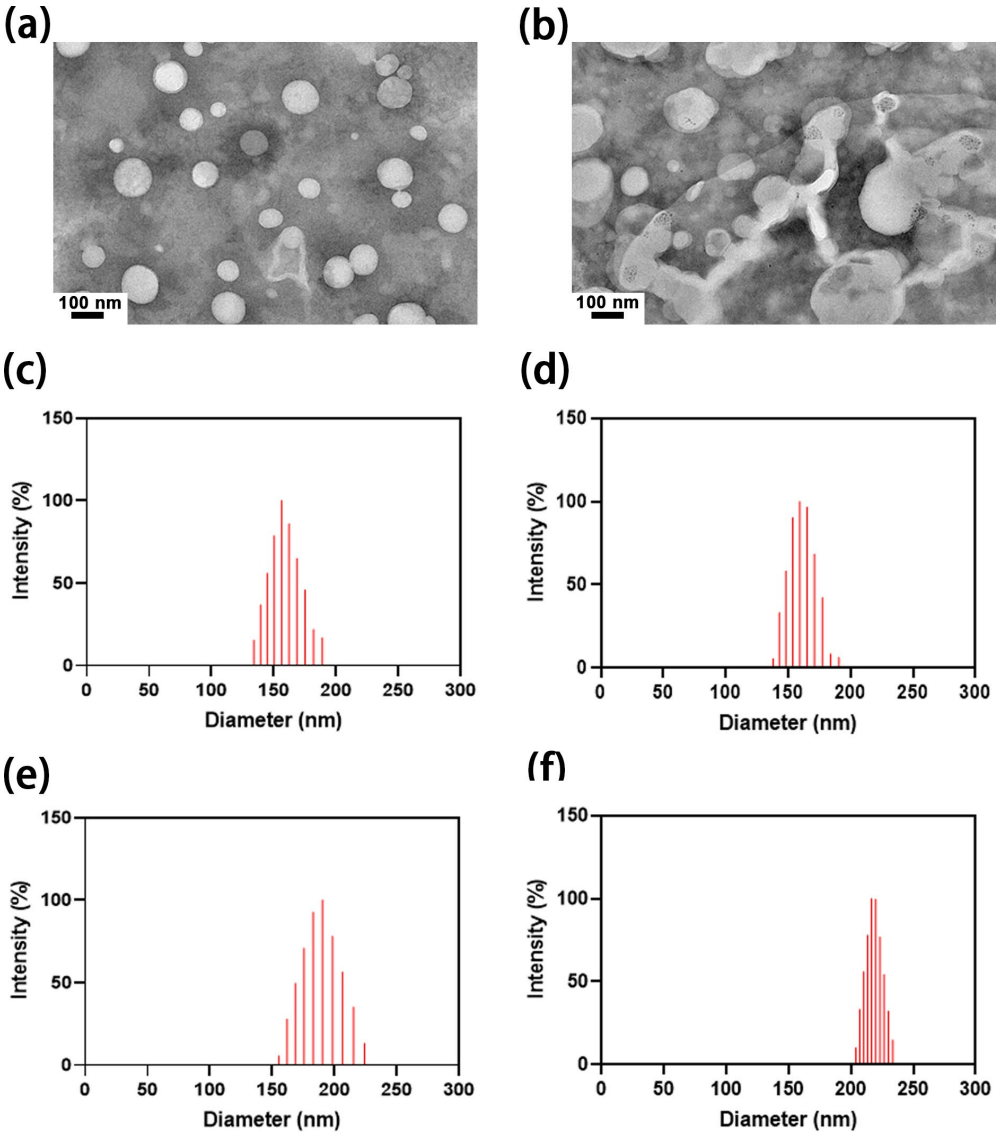

Figure S1. TEM images of (**a**) DIO/Mex@Lipo and (**b**) DIO/Mex@MLipo; Hydrodynamic size distribution of (**c**,**d**) Mex@Lipo and (**e**,**f**) Mex@MLipo.

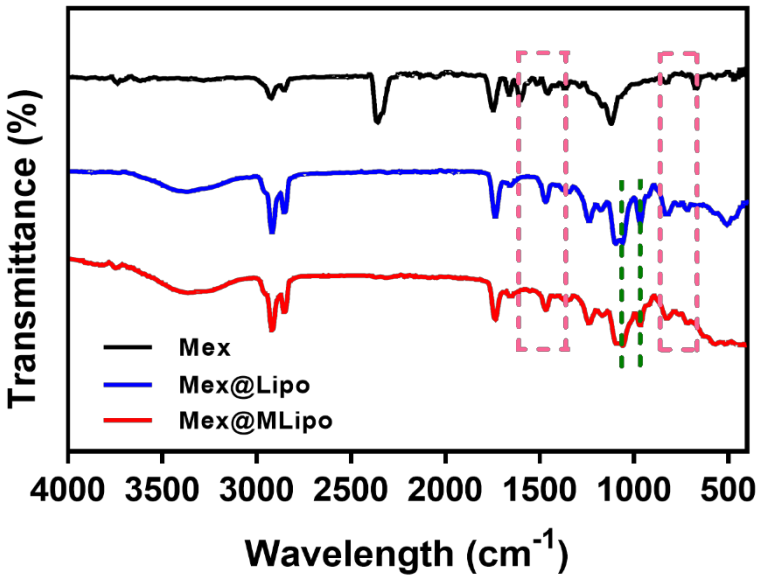

Figure S2. The Fourier transform infrared spectroscopy (FT-IR) spectrum of the Mex, Mex@Lipo and Mex@MLipo.

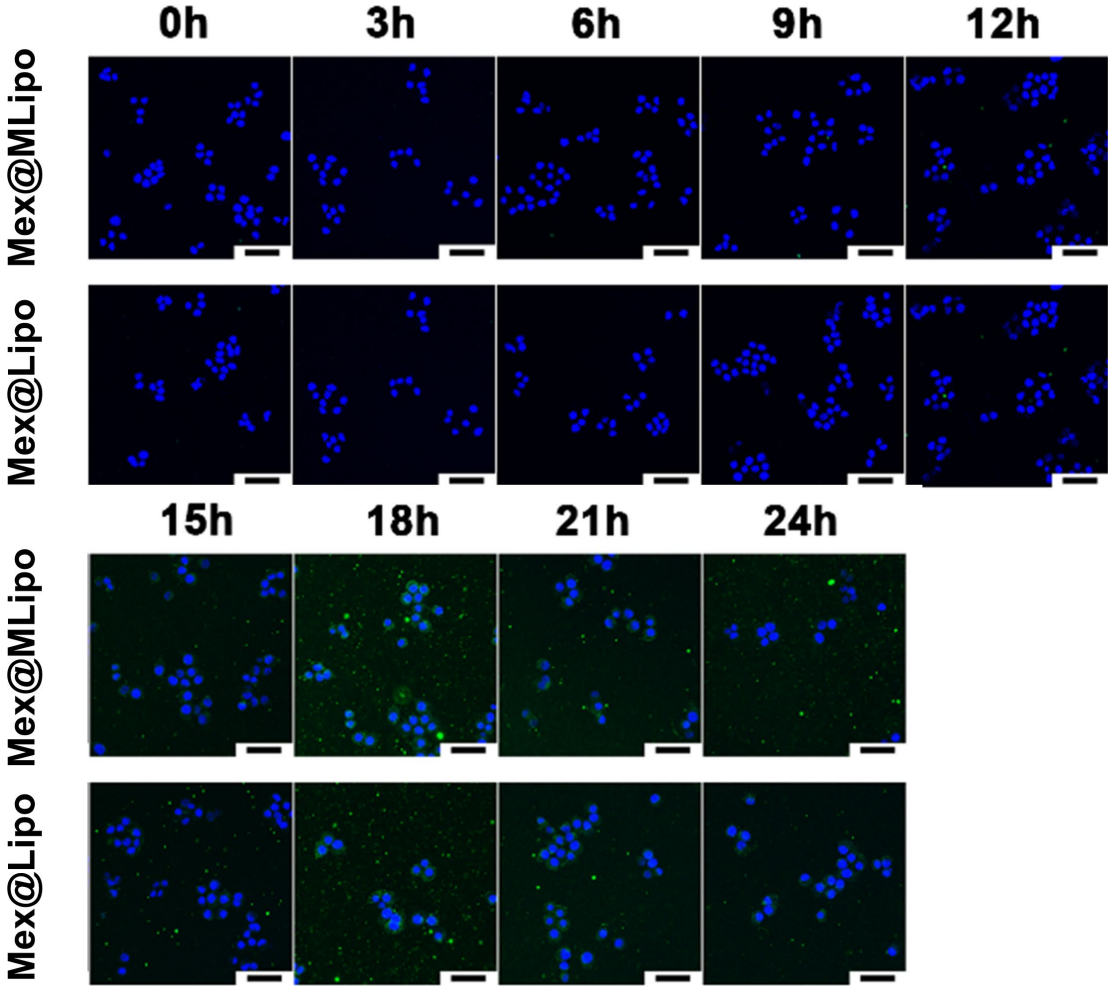

Figure S3. Confocal images of HT-29 cells co-cultured with DIO/Mex@MLipo and DIO/Mex@Lipo at 0, 3, 6, 9, 12,15, 18, 21, and 24 h. Blue fluorescence represents nucleus and green fluorescence represents liposome materials. All scale bars: 50 μm.

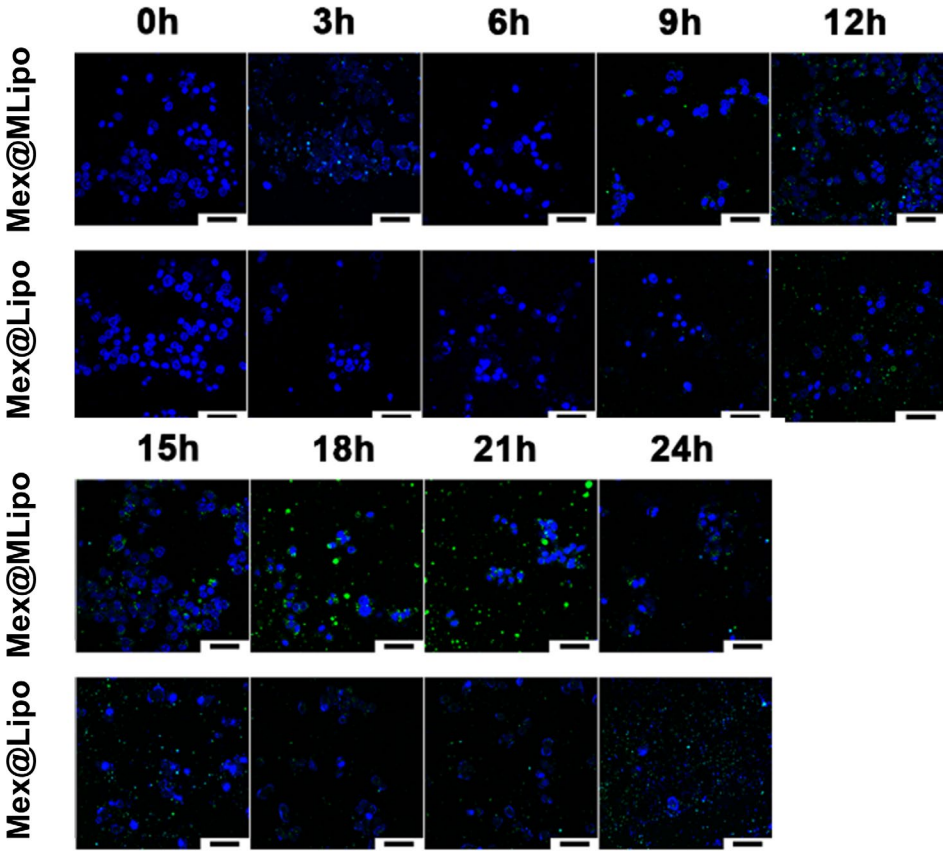

Figure S4. Confocal images of HepG-2 cells co-cultured with DIO/Mex@MLipo and DIO/Mex@Lipo at 0, 3, 6, 9, 12,15, 18, 21, and 24 h. Blue fluorescence represents nucleus and green fluorescence represents liposome materials. All scale bars: 50 μm.

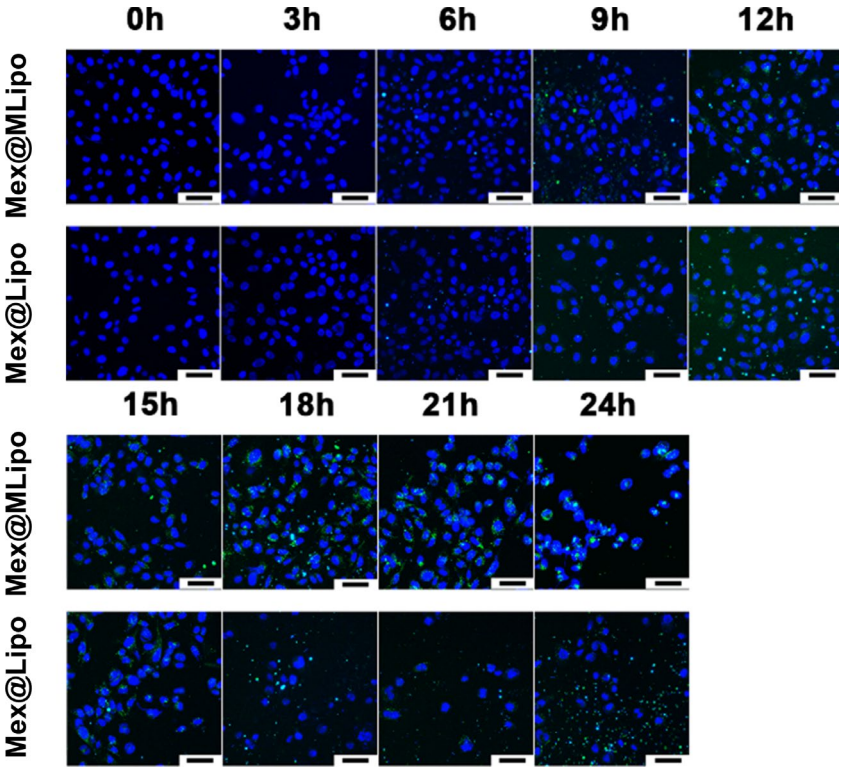

Figure S5. Confocal images of PC-3 cells co-cultured with DIO/Mex@MLipo and DIO/Mex@Lipo at 0, 3, 6, 9, 12,15, 18, 21, and 24 h. Blue fluorescence represents nucleus and green fluorescence represents liposome materials. All scale bars: 50 μm.

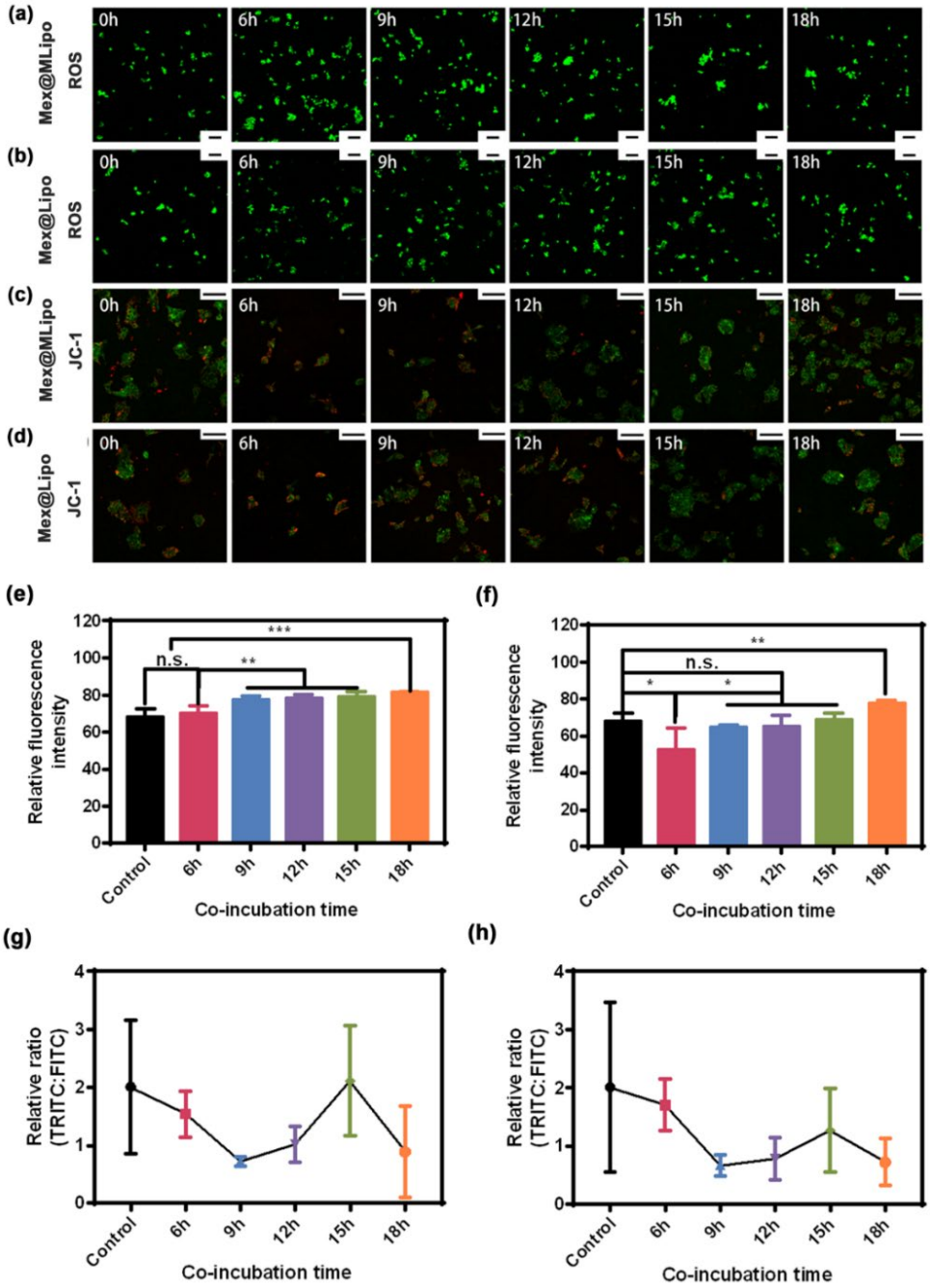

Figure S6. Images of intracellular ROS fluorescence of HepG-2 cells after co-incubation with Mex@MLipo (**a**) and Mex@Lipo (**b**) and quantitative analysis of fluorescence intensity respectively (**e**,**f**); Images of JC-1 fluorescence of HepG-2 cells after co-incubation with Mex@MLipo (**c**) and Mex@Lipo (**d**) and quantitative analysis of fluorescence intensity respectively (**g**,**h**). All scale bars: 100 μm. Error bars: mean ± SD (n = 5). The statistical significance is indicated by n.s.: not statistically significant, $0.0001 < {}^{***}p \leq 0.001$, $0.001 < {}^{**}p \leq 0.01$ and $0.01 < {}^{*}p \leq 0.05$, using an unpaired Student's t-test (two-tailed).

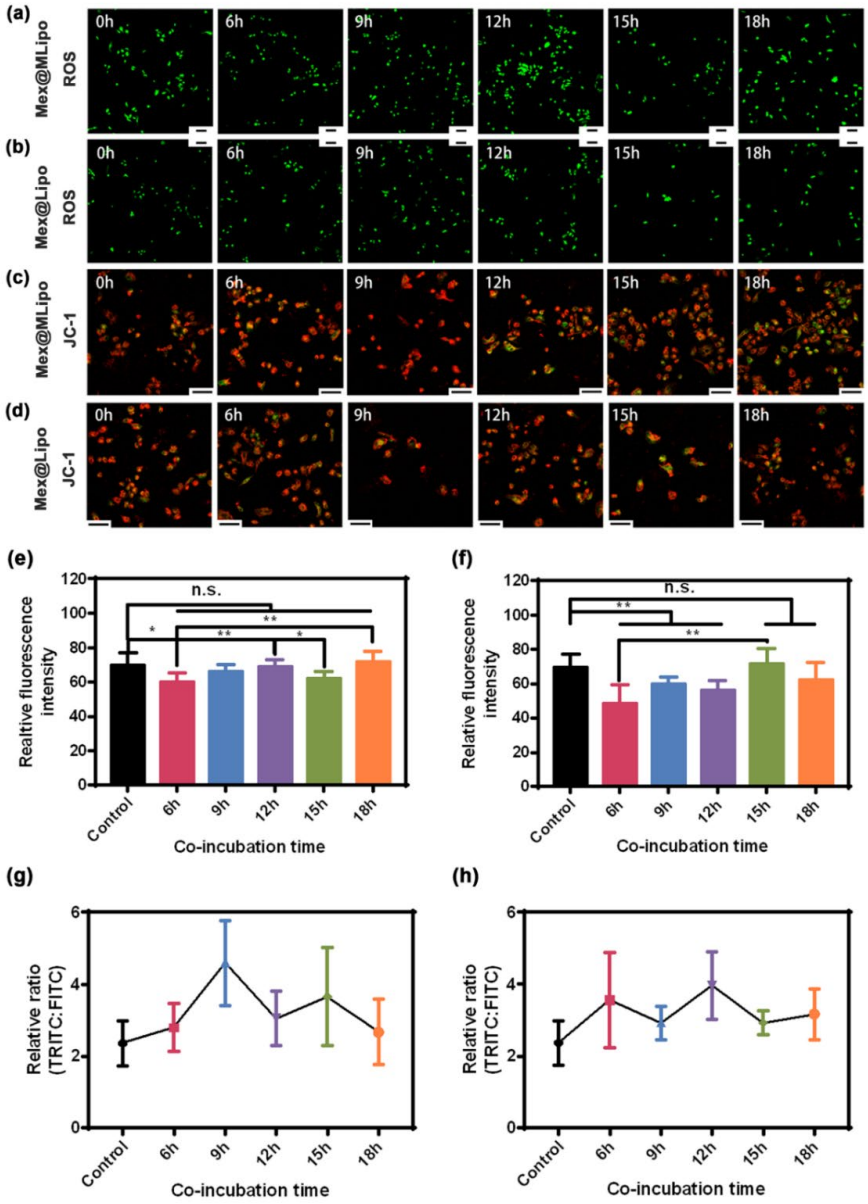

Figure S7. Images of intracellular ROS fluorescence of PC-3 cells after co-incubation with Mex@MLipo (**a**) and Mex@Lipo (**b**) and quantitative analysis of fluorescence intensity respectively (**e**,**f**); Images of JC-1 fluorescence of PC-3 cells after co-incubation with Mex@MLipo (**c**) and Mex@Lipo (**d**) and quantitative analysis of fluorescence intensity respectively (**g**,**h**). All scale bars: 100 μm. Error bars: mean ± SD (n = 5). The statistical significance is indicated by n.s.: not statistically significant, $0.001 < {}^{**}p \leq 0.01$ and $0.01 < {}^{*}p \leq 0.05$, using an unpaired Student's t-test (two-tailed).

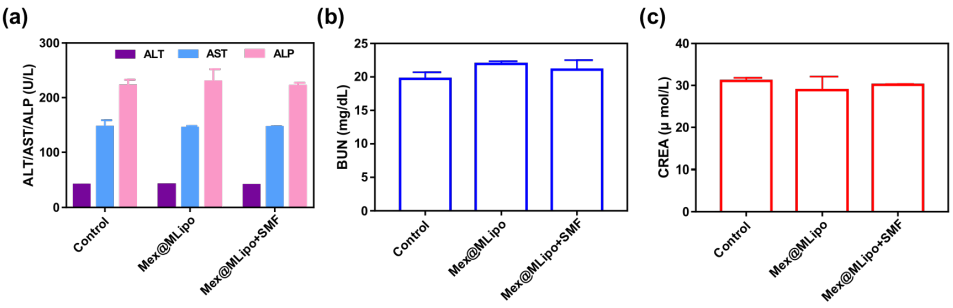

Figure S8. (**a**) Serum levels of ALT, AST and ALP in the different treatment groups. (**b**) BUN and (**c**) CREA levels in different treatment groups of mice.