

Supplementary Materials: PEGylated Liposomes Remotely Loaded With the Combination of Doxorubicin, Quinine, and Indocyanine Green Enable Successful Treatment of Multidrug-Resistant Tumors

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Table S1. Melting points measured by DSC expressed as the mean temperature in °C ± STD.

| Liposome Type | Tm 1 (°C) | Tm 2 (°C) |
|---------------|------------|------------|
| PLD | 52.8 ± 0.2 | 68.6 ± 0.8 |
| PLDQ | 50.4 ± 0.1 | 64.1 ± 0.5 |
| Quinine | 50.0 ± 0.2 | |
| Lip | 48.1 ± 0.4 | |

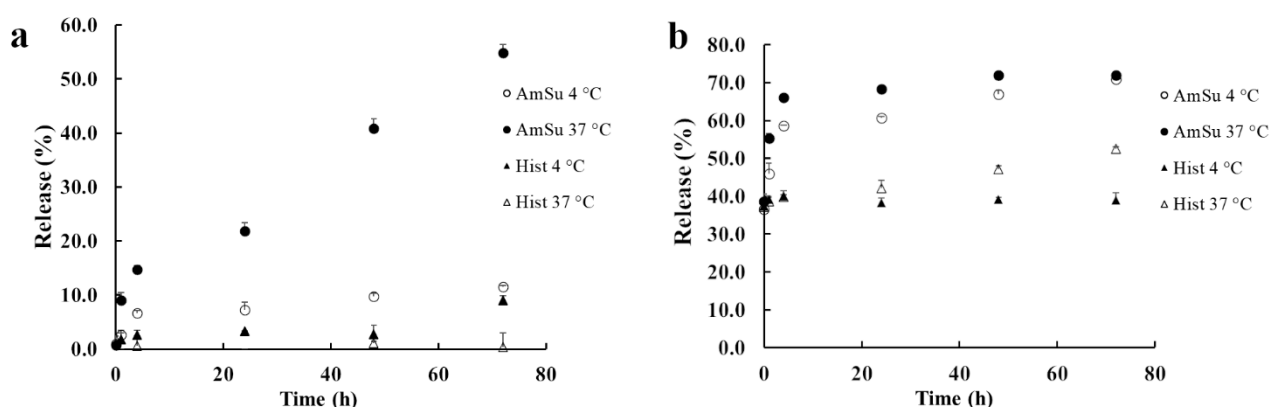


Figure S1. Release of Doxorubicin and quinine from liposomes. (a) Release of Doxorubicin from liposomes at 4 °C and 37 °C in histidine (50 mM) and ammonium sulfate (10 mM) buffers. (b) Release of quinine from liposomes at 4 °C and 37 °C.

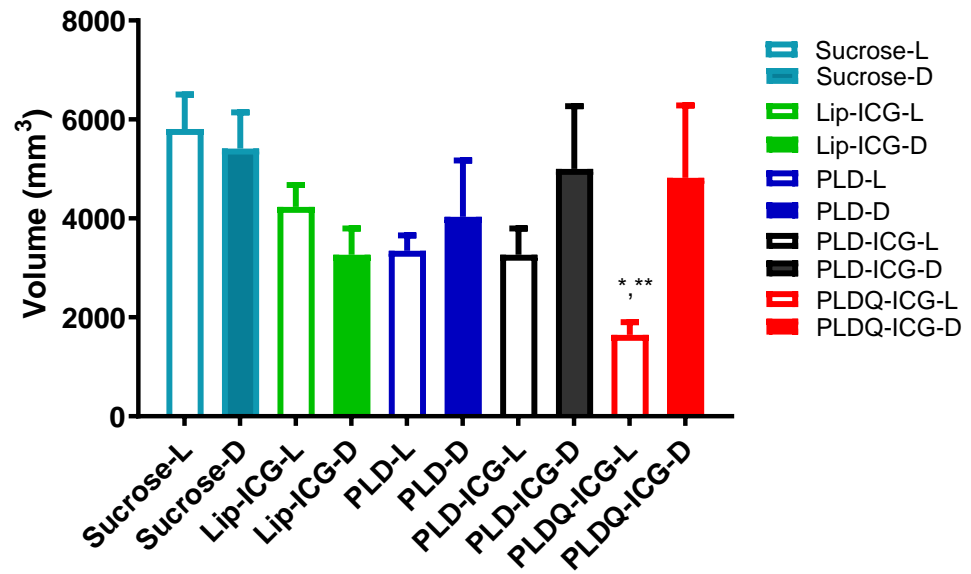


Figure S2. AUC of tumor volume curves. * $p < 0.05$ compared to Sucrose D, PLD-ICG-D, PLDQ-ICG-D, ** $p < 0.01$ compared to Sucrose L. $n = 6-8$. Values represent mean \pm SE. 2-way ANOVA with Tukey Multiple Comparisons Test.

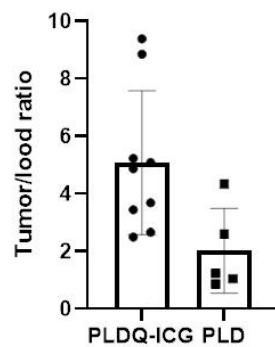


Figure S3. Doxorubicin emission in tumors, ex-vivo.

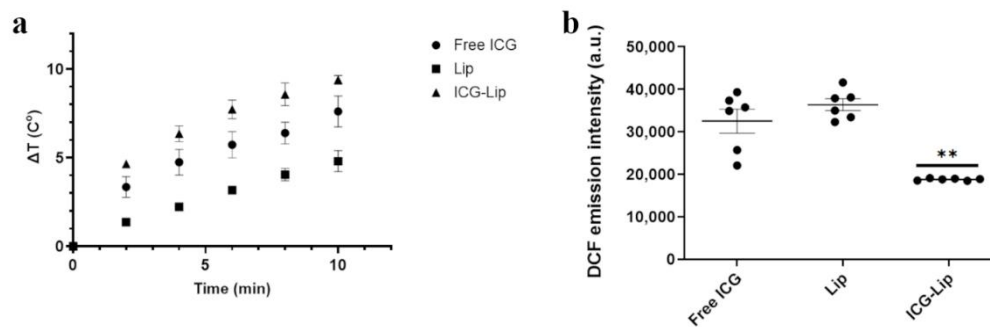


Figure S4. (a) Temperature difference measurement as a function of time. (b) Reactive oxygen species treatment measurement by DCF dye. ** $p < 0.01$. 2-way ANOVA with Tukey Multiple Comparisons Test.

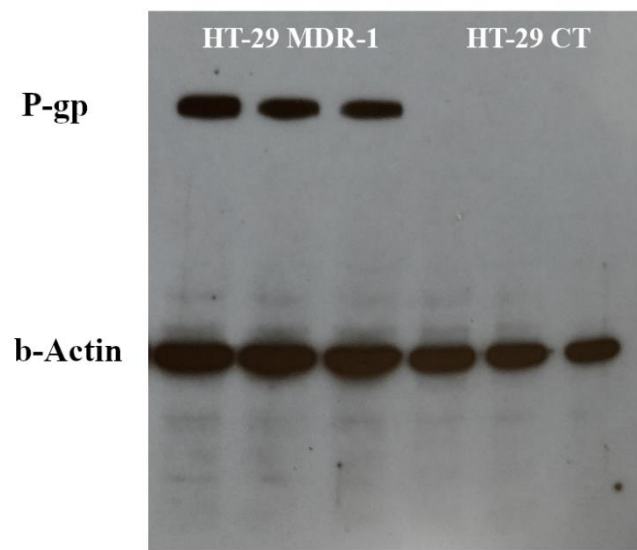


Figure S5. Western blot for HT-29 and HT 29 MDR1 cells showing expression of P-gp and beta-actin.