# Supplementary materials

Table S1. The physiochemical characteristics of the C-6-loaded liposomes.

| Formulations | Size (nm) | PDI | Zeta potential (mV) | C-6 release at 37 °C within 24 h[a] (%) |
|---|---|---|---|---|
| DC80:0 | 101.5±0.5 | 0.28±0.01 | -4.01±0.02 | 0.73±0.61 |
| DC80:10 | 112.7±0.4 | 0.33±0.01 | -3.93±0.37 | 1.13±0.10 |
| DC80:20 | 108.7±0.9 | 0.27±0.01 | -3.40±0.37 | 0.04±0.07 |
| DC80:40 | 111.6±1.0 | 0.38±0.01 | -1.54±0.14 | 0.36±0.22 |

[a] C-6 cumulated release in PBS (10 mM, pH 7.40) at 37 °C within 24 h.

Table S2. The physiochemical characteristics of the DiR-loaded liposomes.

| Formulations | Size (nm) | PDI | Zeta potential (mV) | DiR release at 37 °C within 48h[a] (%) |
|---|---|---|---|---|
| DC80:0 | 117.8±3.7 | 0.30±0.01 | -4.14±0.25 | 1.81±0.85 |
| DC80:10 | 110.1±2.4 | 0.288±0.010 | -3.72±0.11 | 2.23±1.18 |
| DC80:20 | 117.1±1.5 | 0.307±0.044 | -4.20±0.26 | 1.80±0.77 |
| DC80:40 | 107.9±0.8 | 0.338±0.041 | -1.82±0.14 | 2.55±1.58 |

[a] DiR cumulated release in 0.1% (w/v) tween-80 PBS (10 mM, pH 7.40) at 37 °C within 48 h.

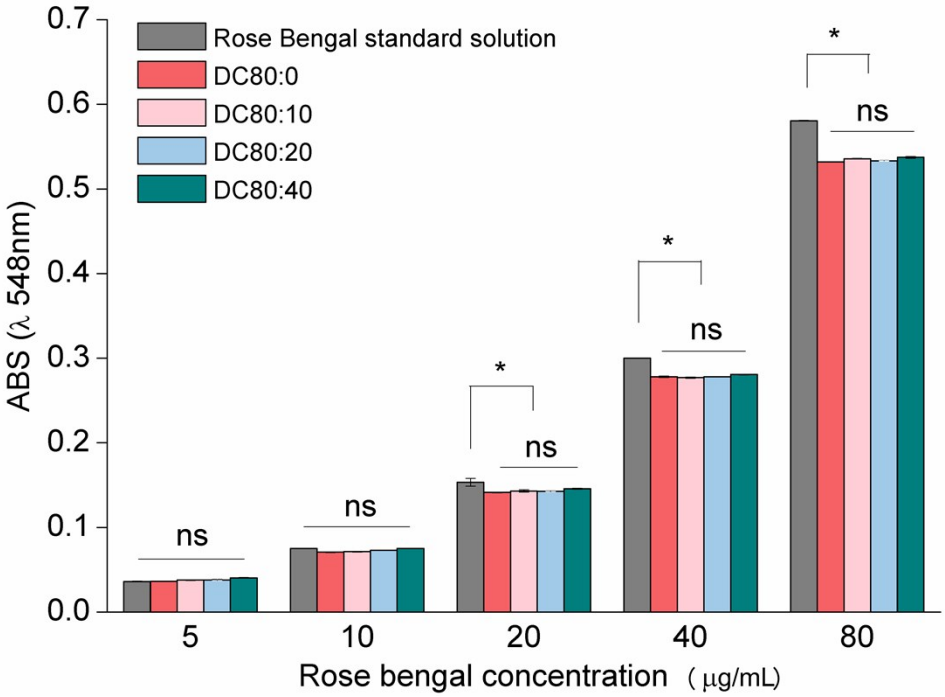


Figure S1. Absorption at 548 nm of the Rose Bengal supernatant after incubating with the liposomes for 3 h. (ns: not significant, *: $p < 0.05$).

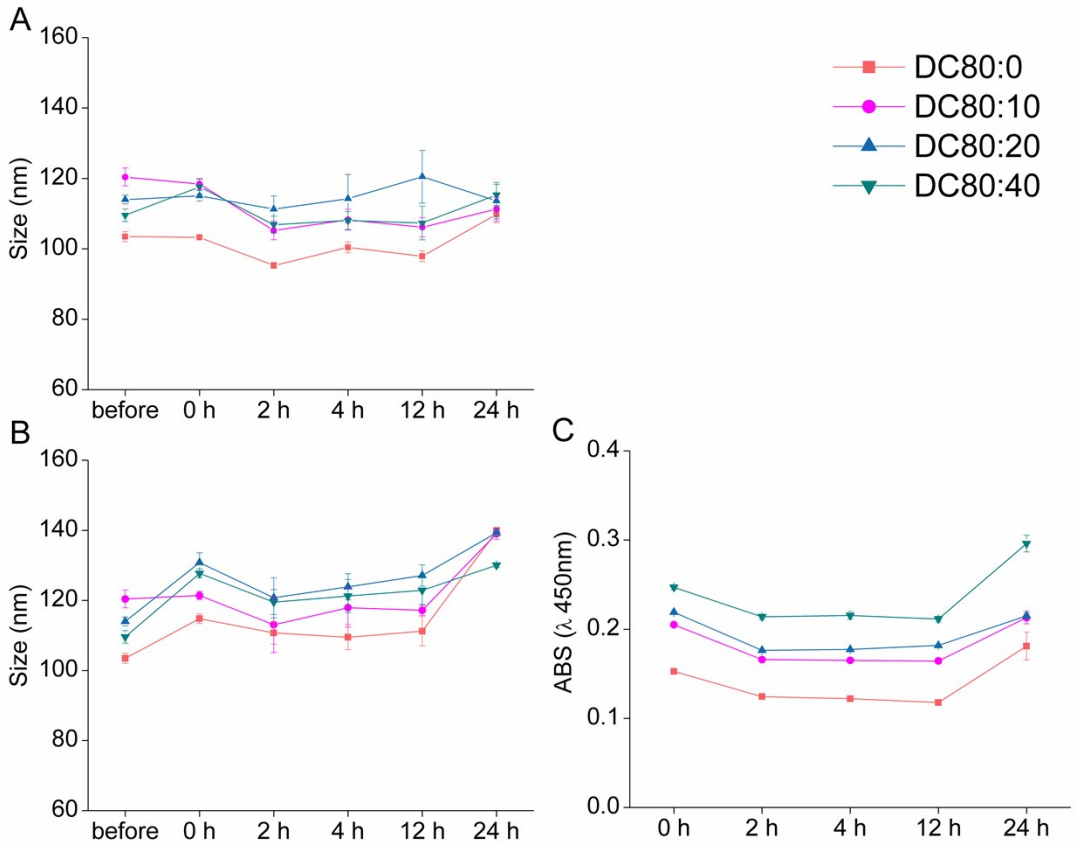


Figure S2. Stability of the C-6 loaded liposomes. (A) The size of the liposomes when incubated in PBS (10 mM; pH7.4) at 37 °C during 24h. (B) The size of the liposomes when incubated in mucin saturated solution at 37 °C during 24h. (C) The absorption of the liposomes when incubated in mucin saturated solution at 37 °C during 24h.