



Product Information

Small molecule drug-modified DPPC liposomes

Cat. No.: X26-05-ZQ2531

Size: 100 mg; 250 mg; 500 mg; 1 g; 5 g

Synonym: Small molecule drug-modified DPPC LPs; Drug-functionalized DPPC liposomes; Small molecule drug DPPC lipid vesicles

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	This advanced engineered responsive formulation features small molecule drug modified 1,2-dipalmitoyl-sn-glycero-3-phosphocholine liposomes. The structural framework utilizes a rigid saturated lipid base composed of 1,2-dipalmitoyl-sn-glycero-3-phosphocholine (DPPC) designed to undergo a sharp gel-to-liquid phase transition (T_m 41°C), whose polar headgroup interface is surface-modified or complexed with small molecule drug traces. This specific configuration couples the sudden alteration in membrane packing density and melting parameters with the steric hindrance of a surface-bound small molecule, providing an advanced cell-free model for studying altered lipid thermodynamics.
Source	Custom synthesis
Functional Group	Conjugated small molecule drug; DPPC
Form	Solid or powder
Purity	≥95%
Impurities	No visible impurities to the naked eye.
Identity	HPLC/MS/NMR
Stability	This product is stable for one year when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Storage	Store at -20°C.