



Daunorubicin/Vincristine (10/1, mol/mol) Loaded Liposomes

Catalog: Lipo-020RG

PRODUCT INFORMATION

Name	Daunorubicin/Vincristine (10/1, mol/mol) Loaded Liposomes
Cat No.	Lipo-020RG
Product Overview	Daunorubicin HCl (Daunomycin, RP 13057, Rubidomycin) inhibits both DNA and RNA synthesis and inhibits DNA synthesis with K_i of 0.02 μ M in a cell-free assay. Daunorubicin is a topoisomerase II inhibitor that induces apoptosis. Vincristine sulfate (NSC-67574, Leurocristine, Oncovin, 22-Oxovincal leukoblastine) is an inhibitor of polymerization of microtubules by binding to tubulin with IC_{50} of 32 μ M in a cell-free assay. Vincristine sulfate induces apoptosis. This product is a PEG modified pre-formulated liposome with daunorubicin HCl and vincristine sulfate at a 10/1 (mol/mol) ratio loaded. The liposomes are useful for the study of ratiometric dosing with chemotherapeutic agents in preclinical models of cancer, suitable for use in vitro or in vivo studies. The lipid composition is HSPC/Chol/DSPE-mPEG2000 (56.2/38.5/5.3, mol/mol).
Lipid Composition	HSPC/Chol/DSPE-mPEG2000 (56.2/38.5/5.3, mol/mol)
Active Ingredients	Daunorubicin; Vincristine
Form	Liquid
Storage Buffer	154 mM NaCl, pH 5.5
Concentration	1.4 mg/mL (Concentration Daunorubicin); 219 μ g/mL (Concentration Vincristine); Lipid Concentration 30 mM
Stability	6 months
Storage	2 $^{\circ}$ C to 8 $^{\circ}$ C (do not freeze)