



DOPC/CHOL Liposomes (100nm), DiR labeled

Catalog: DOPC-018L

PRODUCT INFORMATION

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Cat No. DOPC-018L

Product Overview

The fluorescent control liposomes contain the lipophilic Near IR dye DiR incorporated in the bilayers. It is used for tracking the cellular uptake of the liposomes in vitro and in vivo by common methods like confocal, FACS, NIR imaging etc. The near IR fluorescent, lipophilic carbocyanine DiOC18(7) ("DiR") is weakly fluorescent in water but highly fluorescent and quite photostable when incorporated into membranes. The sulfonate groups incorporated into this DiI analog improves water solubility. It has an extremely high extinction coefficient and short excited-state lifetimes (~1 nanosecond) in lipid environments.

Lipid composition: DOPC/CHOL (54:45 mol/mol)

Mean particle size: 100 nm (90-120 nm)

Lipid Composition DOPC; CHOL

Application Liposome production; Synthetic lipid

Storage Buffer Hydration buffer: 10% sucrose, 20mM HEPES, pH 7.3 ± 0.2

Concentration Lipid concentration: 50 mM (50-55 mM)
DiR: 0.5 mM (0.51mg/mL)

Stability 6 Month for unopened vials.

Storage Store at 2-8 centigrade.

Synonyms DOPC; 1,2-dioleoyl-sn-glycero-3-phosphocholine; CHOL; cholesterol