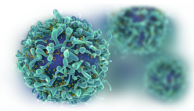

DOPC/CHOL Liposomes (100nm), DiO labeled

Catalog: DOPC-017L

The fluorescent control liposomes contain the green lipophilic dye DiO incorporated in the bilayers. It is used for tracking the cellular uptake of the liposomes by common methods like confocal, FACS, etc. The green fluorescent, lipophilic carbocyanine DiOC18(3) is widely used as a lipophilic tracer. It is weakly fluorescent in water but highly fluorescent and quite photostable when incorporated into membranes. 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)

PRODUCT INFORMATION

Product Name	DOPC/CHOL Liposomes (100nm), DiO labeled
Catalog Number	DOPC-017L
Product Overview	The fluorescent control liposomes contain the green lipophilic dye DiO incorporated in the bilayers. It is used for tracking the cellular uptake of the liposomes by common methods like confocal, FACS, etc. The green fluorescent, lipophilic carbocyanine DiOC18(3) is widely used as a lipophilic tracer. It is weakly fluorescent in water but highly fluorescent and quite photostable when incorporated into membranes. 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

45-1 Ramsey Road, Shirley, NY 11967, USA
info@creative-biostructure.com | Tel: 1-631-317-1417 | Fax: 1-631-207-8356

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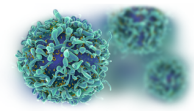

Storage Buffer	Hydration buffer: 10% sucrose, 20mM HEPES, pH 7.3 ± 0.2
Concentration	Lipid concentration: 50 mM (50-55 mM) Dye: 0.5 mM (0.44 mg/mL)
Stability	6 Month for unopened vials.
Storage	Store at 2-8 centigrade.
Synonyms	DOPC; 1,2-dioleoyl-sn-glycero-3-phosphocholine; CHOL; cholesterol

USAGE GUIDELINES

General Handling	Avoid excessive mixing or vortexing to prevent aggregation. Long-term storage above -80°C may result in aggregate formation. Thaw on ice before use.
Storage	**Short term:** +2°C to +8°C (up to 1 week) **Long term:** -80°C (stable for 12 months)
Stability	Stable for 12 months at -80°C. Avoid repeated freeze-thaw cycles.
Freeze / Thaw	Can be frozen, but limit to ?3 freeze/thaw cycles to maintain particle integrity.

Important: This product is for **research use only**. Not intended for diagnostic or therapeutic applications. Please refer to the Safety Data Sheet (SDS) for complete handling and safety information.

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