

DC-Chol/DOPE(2/2 mM) Cationic Liposome

Catalog: Lipo-190RG

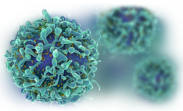
Cationic liposomes are traditionally used for the delivery of genetic materials such as various types of DNA (pDNA, cDNA, CpG DNA, oligonucleotide, antisense oligonucleotide, etc.), various types of RNA such as (siRNA, mRNA, etc.) and nucleic acid mimics (NAMs). DC-Chol is a kind of lipid which has one positive charge per MOLECULE. Using DC-Chol in liposome can neutralize the negative charge of pDNA with positive charge of cationic lipids in order to capture more plasmid efficiently mainly due to electrostatic interaction and deliver them into the cells.

PRODUCT INFORMATION

Product Name	DC-Chol/DOPE(2/2 mM) Cationic Liposome
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Product Overview	Cationic liposomes are traditionally used for the delivery of genetic materials such as various types of DNA (pDNA, cDNA, CpG DNA, oligonucleotide, antisense oligonucleotide, etc.), various types of RNA such as (siRNA, mRNA, etc.) and nucleic acid mimics (NAMs). DC-Chol is a kind of lipid which has one positive charge per MOLECULE. Using DC-Chol in liposome can neutralize the negative charge of pDNA with positive charge of cationic lipids in order to capture more plasmid efficiently mainly due to electrostatic interaction and deliver them into the cells.
Lipid Composition	DC-Chol/DOPE(2/2 mM) DC-Chol: 3?-[N-(N',N'-dimethylaminoethane)-carbamoyl] cholesterol hydrochloride DOPE: 1,2-dioleoyl-sn-glycero-3-phosphoethanolamine (DOPE)
Form	Liquid

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Storage Buffer	Deionized RNAse-free Water, pH 7
Concentration	Lipid Concentration 4mM
Stability	2 months
Storage	2 °C to 8 °C (do not freeze)

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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