

DLin-K-C3-DMA

Chemical Properties

CAS No. : 1217306-46-1

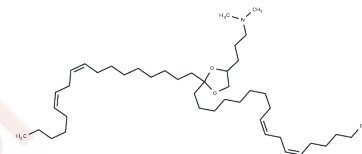
Formula: C44H81NO2

Molecular Weight: 656.12

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	DLin-K-C3-DMA is a cationic lipid that binds to negatively charged mRNA and siRNA, commonly used in the synthesis of lipid nanoparticles (LNP) for nucleic acid delivery.
Targets(IC50)	Others,Liposome

Solubility Information

Solubility	DMSO: 80 mg/mL (121.93 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (5.03 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5241 mL	7.6206 mL	15.2411 mL
5 mM	0.3048 mL	1.5241 mL	3.0482 mL
10 mM	0.1524 mL	0.7621 mL	1.5241 mL
50 mM	0.0305 mL	0.1524 mL	0.3048 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Michael J. Hope, et al. Improved amino lipids and methods for the delivery of nucleic acids. WO2010042877A1.
Semple SC, Akinc A, Chen J, et al. Rational design of cationic lipids for siRNA delivery. Nat Biotechnol. 2010;28(2):
172-176.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481