

ALC-0315

Chemical Properties

CAS No. : 2036272-55-4

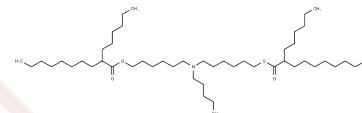
Formula: C₄₈H₉₅NO₅

Molecular Weight: 766.27

Keep away from direct sunlight

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	ALC-0315 is an ionizable amino lipid that has been used in combination with other lipids to form lipid nanoparticles. Lipid-Nanoparticles have been used in the research of mRNA COVID-19 vaccine
Targets(IC50)	Others,Liposome,SARS-CoV

Solubility Information

Solubility	DMSO: 100 mg/mL (130.5 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: 4 mg/mL (5.22 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	1.305 mL	6.5251 mL	13.0502 mL
5 mM	0.261 mL	1.305 mL	2.610 mL
10 mM	0.1305 mL	0.6525 mL	1.305 mL
50 mM	0.0261 mL	0.1305 mL	0.261 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

Moghimi SM. Allergic Reactions and Anaphylaxis to LNP-Based COVID-19 Vaccines. Mol Ther. 2021;29(3):898-900.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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