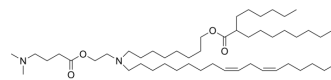


Lipid 15

Cat. No.:	HY-153378		
CAS No.:	2588111-36-6		
Molecular Formula:	C ₅₀ H ₉₆ N ₂ O ₄		
Molecular Weight:	789.31		
Target:	Liposome		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (126.69 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.2669 mL	6.3346 mL	12.6693 mL
		5 mM	0.2534 mL	1.2669 mL	2.5339 mL
10 mM		0.1267 mL	0.6335 mL	1.2669 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.17 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.17 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.17 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Lipid 15 is an ionizable amino lipid used for the generation of Lipid nanoparticles (LNPs).
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REFERENCES

[1]. Elia U, Ramishetti S, Rosenfeld R, et al. Design of SARS-CoV-2 hFc-Conjugated Receptor-Binding Domain mRNA Vaccine Delivered via Lipid Nanoparticles. ACS Nano.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA