Genevant CL1

Cat. No.: HY-46759 CAS No.: 1450888-71-7 Molecular Formula: C39H73NO2

Molecular Weight: 588

Target: Liposome

Pathway: Metabolic Enzyme/Protease Storage: Pure form -20°C

3 years 4°C 2 years

-80°C In solvent 6 months

> -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (170.07 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.7007 mL	8.5034 mL	17.0068 mL
	5 mM	0.3401 mL	1.7007 mL	3.4014 mL
	10 mM	0.1701 mL	0.8503 mL	1.7007 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.25 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.25 mM); Suspended solution; Need ultrasonic
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Genevant CL1 is an ionizable lipid (lipid 10, pKa=6.3), and it can be used for mRNA lipid nanoparticle (LNP) vaccine delivery [1][2]

REFERENCES

[1]. Michael D Buschmann, et al. Nanomaterial Delivery Systems for mRNA Vaccines. Vaccines (Basel). 2021 Jan 19;9(1):65.

2]. Lam K, Leung A, Martin A, e 2023;35(15):e2209624.	et al. Unsaturated, Trialkyl Ioni	zable Lipids are Versatile Lipid-N	lanoparticle Components for Therap	eutic and Vaccine Applications. Adv Mater
	Caution: Product has no	t been fully validated for me	edical applications. For research	use only.
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