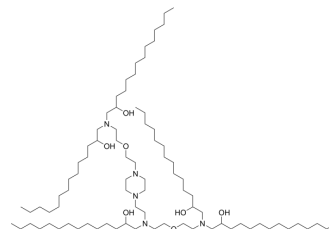


C14-4

Cat. No.:	HY-148842		
CAS No.:	2639634-80-1		
Molecular Formula:	C ₈₄ H ₁₇₃ N ₅ O ₇		
Molecular Weight:	1365.3		
Target:	Liposome		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 100 mg/mL (73.24 mM; Need ultrasonic)
 DMSO : 100 mg/mL (73.24 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.7324 mL	3.6622 mL	7.3244 mL
	5 mM	0.1465 mL	0.7324 mL	1.4649 mL
	10 mM	0.0732 mL	0.3662 mL	0.7324 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (1.83 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

C14-4 is an ionizable lipid for lipid nanoparticles (LNPs) formulation. C14-4 was identified for its potent transfection and low cytotoxicity.

REFERENCES

[1]. Billingsley MM, Hamilton AG, Mai D, et al. Orthogonal Design of Experiments for Optimization of Lipid Nanoparticles for mRNA Engineering of CAR T Cells. Nano Lett. 2022;22(1):533-542.

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

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