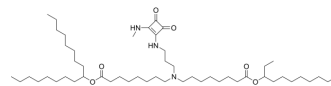


Lipid 29

Cat. No.:	HY-148648		
CAS No.:	2244716-55-8		
Molecular Formula:	C ₅₂ H ₉₇ N ₃ O ₆		
Molecular Weight:	860.34		
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 (116.23 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.1623 mL	5.8117 mL	11.6233 mL
	5 mM	0.2325 mL	1.1623 mL	2.3247 mL
	10 mM	0.1162 mL	0.5812 mL	1.1623 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (2.91 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (2.91 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (2.91 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Lipid 29 is an ionizable amino lipid. Lipid 29 can be used to form lipid nanoparticles^[1].

REFERENCES

[1]. Mark Cornebise, et al. Discovery of a Novel Amino Lipid That Improves Lipid Nanoparticle Performance through Specific Interactions with mRNA. Advanced functional

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

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