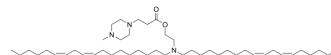


## Lipid 10

Cat. No.:	HY-150115		
CAS No.:	2430034-02-7		
Molecular Formula:	C <sub>46</sub> H <sub>85</sub> N <sub>3</sub> O <sub>2</sub>		
Molecular Weight:	712.19		
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

DMSO : 100 mg/mL (140.41 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.4041 mL	7.0206 mL	14.0412 mL
5 mM	0.2808 mL	1.4041 mL	2.8082 mL
10 mM	0.1404 mL	0.7021 mL	1.4041 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 (3.51 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (3.51 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (3.51 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Lipid 10 is an ionizable amino lipid used for the generation of Lipid nanoparticles (LNPs).

### 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. 2021;15(6):9627-9637.

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

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