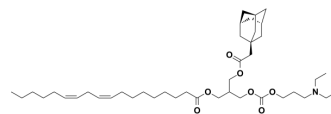


## LNP Lipid-8

<b>Cat. No.:</b>	HY-154974		
<b>CAS No.:</b>	2408140-60-1		
<b>Molecular Formula:</b>	C <sub>42</sub> H <sub>71</sub> NO <sub>7</sub>		
<b>Molecular Weight:</b>	702.02		
<b>Target:</b>	Liposome		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	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 (142.45 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.4245 mL	7.1223 mL	14.2446 mL
5 mM	0.2849 mL	1.4245 mL	2.8489 mL
10 mM	0.1424 mL	0.7122 mL	1.4245 mL

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

### BIOLOGICAL ACTIVITY

#### Description

LNP Lipid-8 (11-A-M) is an ionizable lipid, which can be used for lipid nanoparticles (LNP) to deliver siRNA to T cells without targeting to ligands. LNP LIPs-8 loaded with GFP siRNA (siGFP), and significantly causes GFP gene silencing in mice model<sup>[1]</sup>.

### REFERENCES

[1]. Lokugamage MP, et al. Constrained Nanoparticles Deliver siRNA and sgRNA to T Cells In Vivo without Targeting Ligands. *Adv Mater.* 2019 Oct;31(41):e1902251.

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

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