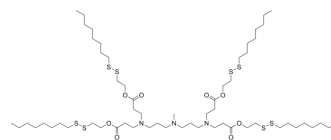


## 306-O12B

<b>Cat. No.:</b>	HY-W590532		
<b>CAS No.:</b>	2566523-06-4		
<b>Molecular Formula:</b>	C <sub>59</sub> H <sub>115</sub> N <sub>3</sub> O <sub>8</sub> S <sub>8</sub>		
<b>Molecular Weight:</b>	1251.08		
<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

<b>In Vitro</b>	DMSO : 100 mg/mL (79.93 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	0.7993 mL	3.9965 mL	7.9931 mL
5 mM		0.1599 mL	0.7993 mL	1.5986 mL	
	10 mM	0.0799 mL	0.3997 mL	0.7993 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (2.00 mM); Suspended solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.00 mM); Suspended solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (2.00 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	306-O12B is an ionizable cationic lipid used for the generation of lipid nanoparticles (LNPs).
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### REFERENCES

[1]. Qiu M, Glass Z, Chen J, et al. Lipid nanoparticle-mediated codelivery of Cas9 mRNA and single-guide RNA achieves liver-specific in vivo genome editing of Angptl3. Proc

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

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