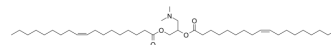


## DODAP

<b>Cat. No.:</b>	HY-130751		
<b>CAS No.:</b>	127512-29-2		
<b>Molecular Formula:</b>	C <sub>41</sub> H <sub>77</sub> NO <sub>4</sub>		
<b>Molecular Weight:</b>	648.05		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<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 (154.31 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	1.5431 mL	7.7155 mL	15.4309 mL	
		5 mM	0.3086 mL	1.5431 mL	3.0862 mL	
10 mM		0.1543 mL	0.7715 mL	1.5431 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 (3.86 mM); Clear 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 (3.86 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (3.86 mM); Clear solution</li> </ol>					

## BIOLOGICAL ACTIVITY

<b>Description</b>	DODAP is a cationic lipid. The ionizable lipid DODAP is a lipid component of the liposome. DODAP can be used to encapsulate siRNA, immunostimulatory chemotherapeutic agents for in vitro and in vivo delivery and so on <sup>[1][2][3]</sup> .
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## REFERENCES

[1]. Dabbas S, et al. Importance of the liposomal cationic lipid content and type in tumor vascular targeting: physicochemical characterization and in vitro studies using

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human primary and transformed endothelial cells. *Endothelium*. 2008;15(4):189-201.

[2]. Hamzah J, et al. Targeted liposomal delivery of TLR9 ligands activates spontaneous antitumor immunity in an autochthonous cancer model. *J Immunol*. 2009;183(2):1091-1098.

[3]. Liu Q, et al. Biotinylated cyclen-contained cationic lipids as non-viral gene delivery vectors. *Chem Biol Drug Des*. 2013;82(4):376-383.

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

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