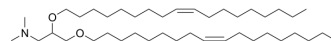


DODMA

Cat. No.:	HY-112755
CAS No.:	104162-47-2
Molecular Formula:	C ₄₁ H ₈₁ NO ₂
Molecular Weight:	620.09
Target:	Liposome
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (161.27 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.6127 mL	8.0633 mL	16.1267 mL
				5 mM	0.3225 mL	1.6127 mL	3.2253 mL
				10 mM	0.1613 mL	0.8063 mL	1.6127 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.03 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.03 mM); Suspended solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.03 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	DODMA, a cationic lipid, is used for the preparation of liposomes ^[1] .
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REFERENCES

[1]. Heyes J, Palmer L, Bremner K, MacLachlan I. Cationic lipid saturation influences intracellular delivery of encapsulated nucleic acids. J Control Release. 2005;107(2):276-287.

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

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