Inhibitors

Screening Libraries

Proteins

Product Data Sheet

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 Mass Concentration	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].

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.

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 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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