

DSPC

Target:

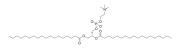
Cat. No.: HY-W040193 CAS No.: 816-94-4 Molecular Formula: C44H88NO8P Molecular Weight: 790.15

Pathway: Metabolic Enzyme/Protease Powder -20°C Storage: 3 years

Liposome

In solvent -80°C 6 months

> -20°C 1 month



Product Data Sheet

SOLVENT & SOLUBILITY

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Ethanol: 12.5 mg/mL (15.82 mM; ultrasonic and warming and heat to 60°C)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.2656 mL	6.3279 mL	12.6558 mL
313.1.33.4410113	5 mM	0.2531 mL	1.2656 mL	2.5312 mL
	10 mM	0.1266 mL	0.6328 mL	1.2656 mL

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

In Vivo

- 1. Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 1.25 mg/mL (1.58 mM); Suspended solution; Need ultrasonic
- 2. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline) Solubility: 1.25 mg/mL (1.58 mM); Suspended solution; Need ultrasonic
- 3. Add each solvent one by one: 10% EtOH >> 90% corn oil Solubility: ≥ 1.25 mg/mL (1.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description DSPC (1,2-Distearoyl-sn-glycero-3-phosphorylcholine) is a cylindrical-shaped lipid. DSPC is used to synthesize liposomes, and is the lipid component in the lipid nanoparticle (LNP) system^{[1][2]}.

In Vitro

In empty lipid nanoparticle (LNP) systems that do not contain siRNA, DSPC-cholesterol resides in outer layers, whereas in loaded systems a portion of the DSPC-cholesterol is internalised together with siRNA^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

esh A Kulkarni, et al. C	on the role of helper lipids in lip	pid nanoparticle formulations of	TSIRNA. Nanoscale. 2019 Nov 21;11(45):2173.	3 21133.
	Caution: Product has n	oot been fully validated for m	edical applications. For research use o	nly.
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REFERENCES

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