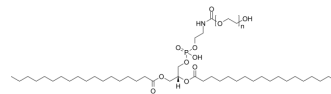


DSPE-PEG 2000

Cat. No.:	HY-142979
CAS No.:	892144-24-0
Molecular Formula:	$(C_2H_4O)_n C_{42}H_{82}NO_{10}P$
Target:	Liposome
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 71.43 mg/mL (Need ultrasonic) Ethanol : 25 mg/mL (ultrasonic and warming and heat to 60°C) H ₂ O : 25 mg/mL (ultrasonic and warming and heat to 60°C)
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	DSPE-PEG 2000 is a PEG-lipid that can be used to form micelles as nanoparticles for drug delivery ^[1] .
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CUSTOMER VALIDATION

- Cancer Nanotechnol. 2023 Nov 13.
- Polym Test. 2023 Dec 1, 108292.
- SSRN. 2023 Jun 27.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Kastantin M, et al. Effect of the lipid chain melting transition on the stability of DSPE-PEG(2000) micelles. Langmuir. 2009 Jul 7;25(13):7279-86.

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

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