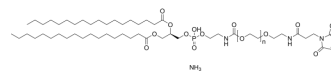


DSPE-PEG5000-Mal ammonium

Cat. No.:	HY-144004A
CAS No.:	474922-22-0
Molecular Formula:	$(C_2H_4O)_n C_{51}H_{92}N_1O_{13}P.H_3N$
Target:	Liposome
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	Ethanol : 25 mg/mL (Need ultrasonic) DMF : 10 mg/mL (Need ultrasonic)
In Vivo	1. Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2 mg/mL (Infinity mM); Clear solution 2. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	DSPE-PEG-Maleimide has DSPE phospholipid and maleimide to prepare nanostructured lipid carrier. DSPE-PEG-Maleimide extends blood circulation time and higher stability for encapsulated agents ^{[1][2]} . DSPE-PEG5000-Mal ammonium contains PEG5000.
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REFERENCES

[1]. Schnorenberg MR, et, al. Synthesis and Purification of Homogeneous Lipid-Based Peptide Nanocarriers by Overcoming Phospholipid Ester Hydrolysis. ACS Omega. 2018 Oct 31;3(10):14144-14150.

[2]. Huwyler J, et, al. Brain drug delivery of small molecules using immunoliposomes. Proc Natl Acad Sci U S A. 1996 Nov 26;93(24):14164-9.

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

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