

DSPE-MPEG2000

Chemical Properties

CAS No. : 147867-65-0

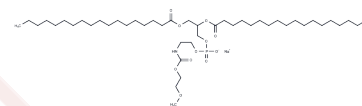
Formula: (C₂H₄O)_nC₄₃H₈₄N₁₀P

Molecular Weight: 872.151

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	DSPE-MPEG2000 is a phospholipid-PEG conjugate possessing both hydrophilic and hydrophobic characteristics. DSPE-PEG(2000) is widely utilized in liposome formulation to enhance aqueous dispersion, surface hydration, and in vivo circulation time. DSPE-PEG(2000) supports the development of long-circulating liposomal drug-delivery systems and is frequently applied in preclinical studies involving anticancer and antimalarial therapeutic agents.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 80.00 mg/mL (91.73 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1466 mL	5.733 mL	11.4659 mL
5 mM	0.2293 mL	1.1466 mL	2.2932 mL
10 mM	0.1147 mL	0.5733 mL	1.1466 mL
50 mM	0.0229 mL	0.1147 mL	0.2293 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Rathore SS, et al. Effect of surface charge and density of distearylphosphatidylethanolamine-mPEG-2000 (DSPE-mPEG-2000) on the cytotoxicity of liposome-entrapped ricin: effect of lysosomotropic agents. *Int J Pharm.* 2008; 350(1-2):79-94.

Hasan GM, et al. Inhibition of the Growth of Plasmodium falciparum in Culture by Stearylamine-Phosphatidylcholine Liposomes. *J Parasitol Res.* 2011;2011:120462.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481