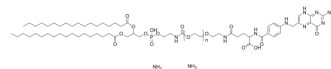


DSPE-PEG-Folate, MW 3350

Cat. No.:	HY-144009
CAS No.:	1236288-25-7
Molecular Formula:	C ₆₅ H ₁₁₄ N ₁₁ O ₁₆ P
Molecular Weight:	3400
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 : 50 mg/mL (14.71 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.2941 mL	1.4706 mL	2.9412 mL
	5 mM	0.0588 mL	0.2941 mL	0.5882 mL
	10 mM	0.0294 mL	0.1471 mL	0.2941 mL

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

BIOLOGICAL ACTIVITY

Description

DSPE-PEG-Folate, MW 3350 is a PEG derivative containing folic acid. DSPE-PEG-Folate has a targeting effect and bind to folate receptors in cancer cells. DSPE-PEG-Folate form micelles/lipid bilayer and can be used to targeted drug delivery system research^{[1][2][3]}.

REFERENCES

- [1]. Werner ME, et, al. Folate-targeted nanoparticle delivery of chemo- and radiotherapeutics for the treatment of ovarian cancer peritoneal metastasis. *Biomaterials*. 2011 Nov;32(33):8548-54.
- [2]. Li Y, et, al. Self-Assembled Nanoparticles Based on Amphiphilic Anticancer Drug-Phospholipid Complex for Targeted Drug Delivery and Intracellular Dual-Controlled Release. *ACS Appl Mater Interfaces*. 2015 Aug 19;7(32):17573-81.
- [3]. Patlolla RR, et al. Folate-targeted etoposide-encapsulated lipid nanospheres. *J Drug Target*. 2008 May;16(4):269-75.

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

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