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TECHNICAL DATA SHEET

DSPE PEG Folic acid, MW 1000, 2000, 3400, 5000, 10k, 20k

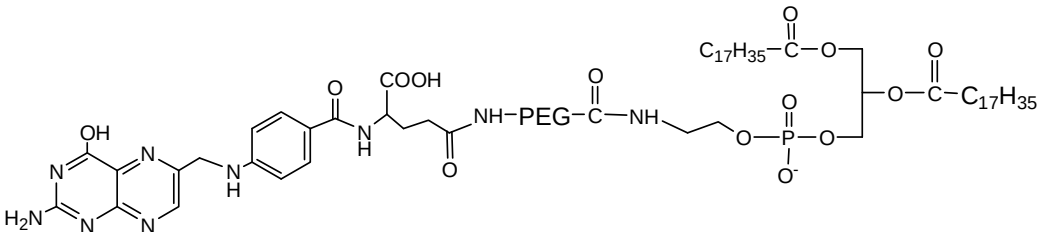
Catalog Numbers: PG2-DSFA-1k, 2k, 3k, 5k, 10k, 20k.

Synonym: DSPE PEG Folate, Folic acid PEG DSPE

Description:

DSPE PEG Folate, also called Folic acid PEG DSPE, is one of functional phospholipid PEG products provided by Nanocs for targeted drug delivery, nanoparticle functionalization, liposome formation as well as many other applications. Pegylated phospholipid products demonstrate excellent amphilphilic properties and offer superior advantages for small and large molecule targted delivery. DSPE (1,2-distearoyl-sn-glycero-3-phosphophoethanolamine) PEG folic acid is a C18 phospholipid PEG derivative which can be used for folate receptor targeting. Folic acid is also known as vitamin M, vitamin B9 or pteroyl-L-glutamic acid. Folic acid is an essential bioactive molecule for numerous biological functions. It participates in the synthesis, repairing and methylation of DNA as well as to act as a cofactor in many biological reactions. Pegylated DSPE and Folic acid is soluble both in organic solvents and aqueous buffer. They have been used for preparing folate receptor targeting liposome for either small molecules or large molecules delivery. Pegylation of phospholipids significantly improves the blood circulation time and stability for encapsulated drugs; it also suppresses the non-specific binding of charged molecules to the modified surfaces.

Product Structure:



Product Specifications:

- Composition: DSPE PEG Folic acid.
- Appearance: Yellow, orange to brownish solid.
- Solubility: >5 mg/mL in hot water, chloroform/methanol, and DMSO.
- Stability: >12 months at -20 ^{0}C.

Handling and Use:

DSPE PEG folate should always be kept in low temperature in dry condition. Prepare fresh solution right before use. Avoid frequent thaw and freezing. For more information about using this product, visit **www.nanocs.net.**

Storage Conditions:

Product should be stored at -20 ^{0}C. Desiccate. Protect from light. Re-test material after 12 months.

This product is for research use only and is not intended for use in humans or for diagnostic use.