

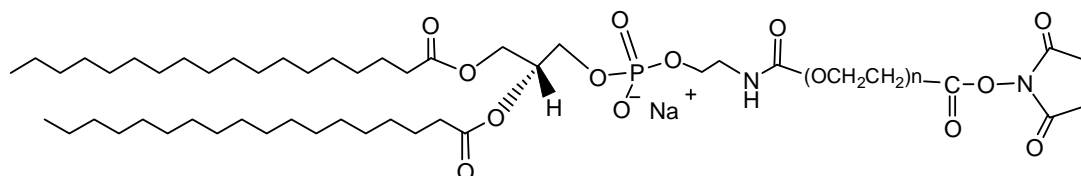
TECHNICAL DATA SHEET**DSPE PEG NHS, MW 1000, 2000, 3400, 5000, 10k, 20k**

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

Synonym: 1,2-distearoyl-sn-glycero-3-phosphoethanolamine-N-polyethylene glycol succinimidyl ester, NHS PEG DSPE

Description:

DSPE PEG NHS is one of Nanocs' reactive phospholipid PEG conjugates that can react with primary amine groups. DSPE (1,2-distearoyl-sn-glycero-3-phosphoethanolamine) is an 18 carbon phospholipid that is highly hydrophobic. PEG backbone, on the other hand, offers good hydrophilicity and water solubility. Succinimidyl ester (NHS) on the PEG terminal reacts with primary amine groups efficiently at pH 8~10. **DSPE PEG NHS** can be easily incorporated into liposome and other nanoparticles. **NHS PEG DSPE** is one of most commonly used reactive phospholipids to conjugate antibodies, peptides or other ligands to the surface of liposome and other lipid PEG nanoparticles. Pegylated phospholipids have longer blood circulation time and higher stability for encapsulated molecules. Nanocs has developed a comprehensive collection of chemical reactive phospholipid PEG products that have high purity, various molecular weights and excellent chemical reactivity. These lipid PEG conjugates demonstrate excellent amphiphilic properties and offer superior advantages for small and large molecule modification, formulation and delivery.

Product Structure:**Product Specifications:**

- Composition: DSPE PEG NHS.
- Appearance: White to off-white solid.
- Solubility: 10 mg/mL in hot water, chloroform, ethanol, DMSO, clear.
- Reactive group: NHS.
- Reactive to: Primary amine (-NH₂).

Handling and Use:

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

Storage Conditions:

NHS PEG DSPE should be stored at -20 °C. Desiccate. Re-test material in 6 months.

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

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