

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

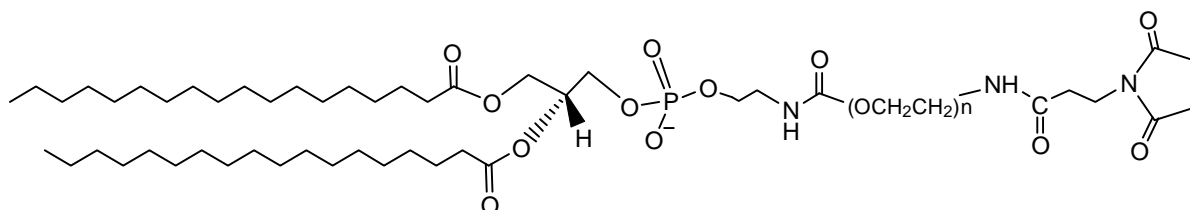
Catalog Numbers: PG2-DSML-1k, 2k, 3k, 5k, 10k, 20k.

CAS number: 474922-22-0

Synonym: 1,2-distearoyl-sn-glycero-3-phosphoethanolamine-N-polyethylene glycol maleimide, Maleimide PEG DSPE

**Description:**

**DSPE PEG Maleimide** is one of Nanocs' reactive phospholipid PEG derivatives that can react with sulfhydryl 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. **Maleimide** functionalized DSPE PEG has excellent reactivity towards sulfhydryl/thiol groups. Reaction between Maleimide and thiol group proceeds easily at neutral pH. **Maleimide 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 drugs. Nanocs has developed a comprehensive collection of thiol reactive maleimide 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 drug formulation and delivery.

**Product Structure:****Product Specifications:**

- Composition: **DSPE PEG Maleimide.**
- Appearance: White to off-white solid.
- Solubility: >10 mg/mL in hot water, chloroform, ethanol, etc.
- Reactive group: Maleimide.

**Handling and Use:**

**DSPE PEG Maleimide** undergoes hydrolysis at elevated temperature and moisture. Maleimide PEG 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](http://www.nanocs.net).

**Storage Conditions:**

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

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

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