

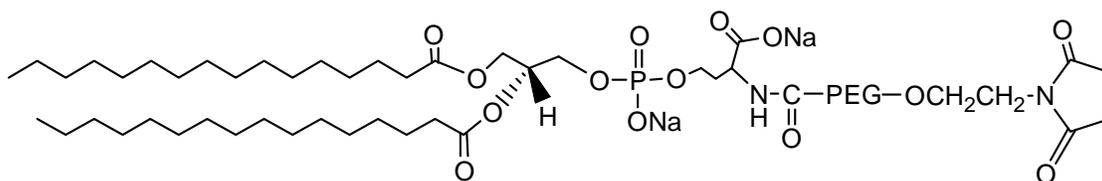
**TECHNICAL DATA SHEET****Phosphoserine PEG Maleimide, MW 1000, 2000, 3400, 5000, 10k, 20k**

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

Synonym: DPPS PEG Maleimide

**Description:**

**Phosphoserine PEG Maleimide** (DPPS PEG Maleimide) is one of Nanocs' reactive phospholipid PEG derivatives that can react with sulfhydryl groups. Phosphoserine (1,2-dipalmitoyl-sn-glycero-3-phosphoserine, DPPS) is a 16 carbon saturated phospholipid that is highly hydrophobic. PEG backbone, on the other hand, offers good hydrophilicity. Maleimide functionalized DPPS PEG is able to react with free thiol groups from proteins, peptides and many other materials. Reaction between maleimide and thiol enables conjugation of DPPS PEG to various materials. PEG linker between DPPS and maleimide offers better water stability, flexible linker structure and enhanced stability. Pegylated phospholipids are excellent drug delivery materials. Reactive lipid PEG can be used for targeted drug delivery vehicle by modifying these lipids with targeting ligands such as antibodies, peptides.

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

- Composition: **DPPS PEG Maleimide.**
- Appearance: White to off-white solid.
- Solubility: >10 mg/mL, clear in hot water or chloroform.
- Reactive group: Maleimide.
- Reactive to: Sulfhydryl/Thiol.

**Handling and Use:**

**DPPS PEG Maleimide** 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 Phosphoserine** should be stored at -20 °C. Desiccate. Re-test material after 6 months.

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

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