

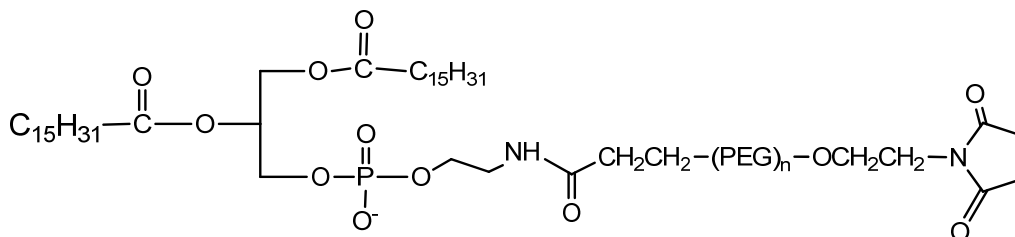
**TECHNICAL DATA SHEET****DPPE PEG Maleimide, MW 1000, 2000, 3400, 5000, 10k, 20k**

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

Synonym: Maleimide PEG DPPE

**Description:**

**DPPE PEG maleimide** is one of Nanocs's reactive phospholipid PEG derivatives that have a DPPE phospholipid and a maleimide group bridged by a linear PEG linker. DPPE is a 16 carbon saturated phospholipid with high hydrophobicity. PEG backbone, on the other hand, offers good hydrophilicity. Maleimide functionalized DPPE PEG can react with free sulfhydryl groups at pH 6.6-7.5 with high efficiency. Reaction between maleimide and thiol group allows the conjugation of DPPE PEG to various thiol bearing molecules or particles. **Maleimide PEG DPPE** is one of Nanocs' most frequently used reactive phospholipids that can be conjugated to the surface of liposome and other lipid PEG nanoparticles. Pegylated phospholipids significantly improve blood circulation time and stability for encapsulated drugs. Nanocs has developed a comprehensive collection of 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 drug modification, formulation and delivery.

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

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

**Handling and Use:**

**DPPE 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:**

**DPPE PEG Maleimide** should be stored at -20 °C. Desiccate. Protect from moisture. 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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