

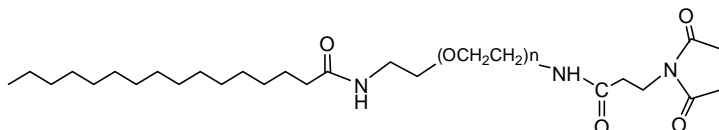
TECHNICAL DATA SHEET**Palmitic Acid PEG Maleimide, MW 2000, 3400, 5000, 10k, 20k**

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

Synonym: Maleimide PEG Palmitic acid

Description:

Palmitic acid PEG Maleimide is one of Nanocs' thiol reactive fatty acid lipid PEG derivatives that have a terminal maleimide group. Palmitic acid is a saturated 16 carbon fatty acid with high hydrophobicity. PEG backbone, on the other hand, offers good hydrophilicity. Maleimide functionalized Palmitic acid PEG can readily react with sulfhydryl group at pH 6.5-7.5 to form a stable thioether bond. Reaction between maleimide and thiol enables quick and efficient conjugation of PEG palmitic acid with other molecules or materials. PEG linker between Palmitic acid and Maleimide offers better water solubility, flexible linker structure and enhanced stability. Pegylated fatty acid lipids are excellent liposome formulation materials that can be used for drug encapsulation, gene transfection and vaccine delivery. Reactive PEG lipids can also be used for targeted drug delivery carriers by modifying their surfaces with targeting ligands such as antibodies, peptides. Pegylate lipids show significantly improved stability and blood circulation time for encapsulated drugs.

Product Structure:**Product Specifications:**

- Composition: **Palmitic Acid PEG Maleimide.**
- Appearance: White to off white solid.
- Solubility: Soluble in hot water, chloroform, toluene, etc.
- Reactive group: Maleimide.
- Reactive to: Sulfhydryl.

Handling and Use:

Palmitic acid 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.

Storage Conditions:

Maleimide PEG Palmitic acid 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.

The information given in this document is to the best of our knowledge accurate, but no warranty is expressed or implied. It is the user's responsibility to determine the suitability for their own use of the products described herein, and since conditions of use are beyond our control, we disclaim all liability with respect to the use of any material supplied by us. Nothing contained herein shall be construed as a recommendation to use any product or to practice any process in violation of any law or any government regulation.