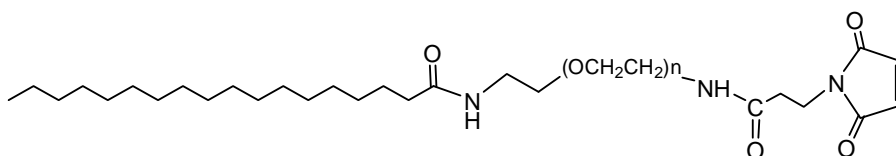


TECHNICAL DATA SHEET**Stearic Acid PEG Maleimide, MW 1000, 2000, 3400, 5000, 10k, 20k**

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

Description:

Stearic acid PEG Maleimide is one of Nanocs' reactive fatty acid PEG derivatives that can react with sulfhydryl/thiol groups. Stearic acid is an 18 carbon fatty acid with high hydrophobicity. PEG backbone, on the other hand, offers good hydrophilicity. Maleimide modified stearic acid PEG reacts readily with sulfhydryl groups at pH 6.5-7.5 to form a stable covalent bond. Reaction between maleimide and thiol allows the conjugation of stearic acid PEG to proteins, nucleic acids, peptides or antibodies. Pegylated fatty acid lipids are excellent liposome formulation materials that can be used for drug encapsulation, gene transfection and vaccine delivery. Pegylated lipids have higher stability with longer blood circulation time when they are used for drug carriers. Reactive lipid PEG can also be used for targeted drug delivery vehicle by modifying these lipids with targeting ligands such as antibodies, peptides.

Product Structure:**Product Specifications:**

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

Handling and Use:

Stearic 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 Stearic acid should be stored at -20 °C. Desiccate. Protect from light. 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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