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TECHNICAL DATA SHEET

Palmitic Acid PEG NHS, MW 2000, 3400, 5000, 10k, 20k

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

Synonym: Succinimidyl PEG Palmitic acid, NHS PEG Palmitic acid

Description:

Palmitic acid PEG NHS is one of Nanocs' amine reactive fatty acid lipid PEG derivatives that have a terminal succinimidyl NHS ester group. Palmitic acid is a saturated 16 carbon fatty acid with high hydrophobicity. PEG backbone, on the other hand, offers good hydrophilicity. NHS functionalized Palmitic acid PEG can readily react with primary amine group at pH 7-10 to form a stable amide bond. Reaction between NHS and primary amine group 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 NHS.Appearance: White to off white solid.

Solubility: 10 mg/mL, clear in warm water, chloroform, etc.

Reactivity: NHS reactive toward primary amine group.

Handling and Use:

Palmitic acid PEG NHS 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:

NHS 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.

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