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TECHNICAL DATA SHEET

Bis-carboxylic acid PEG, HOOC-PEG-COOH

Catalog Numbers: PG2-CA-400, 600, 1k, 2k, 3k, 5k, 10k, 20k, 30k.

Synonym: Acid PEG acid

Description:

Bis-carboxylic PEG (COOH-PEG-COOH) is one of Nanocs' carboxylic acid (-COOH) homofunctionalized polyethylene glycol derivatives that can be used to modify proteins, peptides, particles and other materials with their free acid groups. Carboxylic acid groups react with amine groups to form stable amide bond. They can also react with hydroxyl groups to form ester bond which can be cleaved under acidic or basic conditions. PEGvlation can increase stability and immunogenicity of modified bimolecules. It can also suppress the non-specific binding of charged molecules to the modified surfaces. This material has broad applications in the field of medical device surface modification, biomolecule pegylation and particle functionalization.

Product Structure:

HOOC-(CH₂CH₂O)_n-CH₂CH₂-COOH

Product Specifications:

Composition: Carboxylic PEG carboxylic acid.

Appearance: White/off-white solid, semi-solid or liquid depends on molecular

weight.

Solubility: 10 mg/mL clear in water,

chloroform, DMSO, etc.

• Stability: >12 months at $4\sim8$ °C.

Handling and Use:

Acid PEG acid 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:

Bis-acid PEG should be stored at 4~8 °C. Materials may be handled under inert gas for best stability. Retest material after 12 months.

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

Related Products:

Amine PEG Amine NHS PEG Acid Biotin PEG Acid Amino PEG Acid HO PEG COOH

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