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TECHNICAL DATA SHEET

Methoxy PEG Epoxide, mPEG-EPO

Catalog Numbers: PG1-EP-350, 550, 750, 1k, 2k, 5k, 10k, 20k, 30k, 40k.

Synonym: mPEG Epoxide, Epoxide PEG, Epoxy PEG

Description:

mPEG Epoxide is one of Nanocs' monofunctional PEG derivatives that can be used to modify proteins, antibodies, nanoparticles and other materials via its reactive epoxy group. Epoxide group is reactive toward amine, thiol or hydroxyl groups. The higher pH, the faster the reaction. Pegylated epoxide is soluble in water. All reactions can be carried out in aqueous buffer without need any organic solvents. PEGylation with PEG epoxide can increase solubility and stability of pegylated molecules. It can also reduce the immunogenicity of pegylated peptides or proteins. In addition, PEG epoxide modified material surface will have much lower nonspecific binding.

Product Structure:

CH₃O-(CH₂CH₂O)_n

Product Specifications:

Composition: MPEG Epoxide

Appearance: White/ solid or semi-solid

depends on molecular weight.

Solubility: Soluble in water, chloroform or

DMSO, etc.

Reactive group: Epoxy.

Handling and Use:

For best use, **Epoxide PEG** 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:

mPEG Expoxide should be stored at -20 °C. Desiccate. Materials may be handled under inert gas for best stability. 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.

To Order:

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