

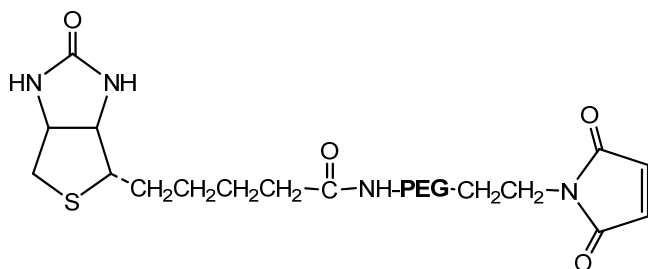
TECHNICAL DATA SHEET
Biotin PEG Maleimide, MW 400, 600, 1000, 2000, 3400, 5000, 10k, 20k

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

Synonym: Maleimide PEG Biotin

Description:

Maleimide PEG Biotin is one of Nanocs' thiol (-SH) reactive PEG biotin derivatives that can be used to attach biotin molecule to proteins, peptides, particles and other materials surfaces through their reactive maleimide groups. Biotin is a small bioactive molecule that has high affinity toward avidin or streptavidin. Biotin/streptavidin system has been widely used in molecule detection, bioassays and drug delivery applications. **Maleimide** reacts readily with reduced sulfhydryl group from naturally occurring or mutagenically derived cysteine residues. This reaction proceeds readily at pH 6.5~7.5 to form a stable thioether bond. PEG linker between biotin and maleimide group offers better water solubility, flexible linker structure and enhanced stability. **Maleimide PEG Biotin** from Nanocs is water soluble and biocompatible; all reactions can be carried out in water without adding any organic solvents.

Product Structure:

Product Specifications:

- Composition: **Biotin PEG Maleimide.**
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: 10 mg/mL, clear in water, DMSO.
- Function group: Biotin
- Reactive group: Maleimide.

Handling and Use:

Biotin PEG Maleimide is sensitive to moisture and temperature. For best use, material 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 Biotin should be stored at -20 °C. Desiccate. Materials may be handled under inert gas for best stability. Re-test material 12 months after receiving.

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

Related Products:

 Biotin PEG NHS
 Biotin PEG OPSS
 Biotin PEG COOH
 FITC PEG Biotin

 Biotin PEG Amine
 Biotin PET Thiol
 Biotin PEG Azide
 Aminoxy PEG Biotin

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