

TECHNICAL DATA SHEET

Alkyne PEG Biotin, MW 600, 1000, 2000, 3400, 5000, 10k, 20k

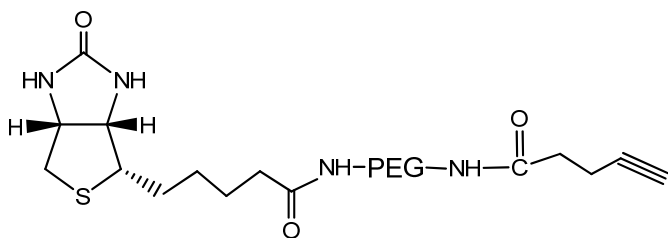
Catalog Numbers: PG2-AKBN-600, 1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Biotin PEG Alkyne

Description:

Alkyne PEG Biotin is a one of Nanocs' Click Chemistry PEG reagents that contain a terminal biotin and an alkyne group on each PEG terminus. Alkyne group is one of most commonly used Click Chemistry functional group that can react with azide group. Reaction between alkyne and azide proceeds easily in aqueous solution catalyzed by copper ions. High yield reaction of alkyne and azide enables the conjugation of biotin tag to targeted molecules efficiently. Biotin is a commonly used bioactive tag that can bind to avidin or streptavidin with high affinity. Biotin/streptavidin system has been used widely in bioassay development, protein and nucleic acid detection and separation. Alkyne functionalized biotin PEG allows biotinylation of various substrates with high yield. PEG linker between alkyne and biotin group offers good water solubility, flexible spacer length and enhanced stability.

Product Structure:



Product Specifications:

- Composition: **Alkyne PEG Biotin.**
- Appearance: White/off-white solid or semi solid depends on MW of PEG.
- Solubility: 10 mg/mL, clear in water, chloroform, DMSO.
- Reactive group: Alkyne.
- Reactive to: Azide.

Handling and Use:

Alkyne PEG Biotin 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:

Biotin PEG alkyne should be stored at -20 °C or lower. Desiccate. Materials may be handled under inert gas for best stability. Re-test 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:

Alkyne PEG NHS
Alkyne PEG COOH
Biotin PEG DBCO

Alkyne PEG Maleimide
Biotin PEG Azide
Thiol PEG Biotin

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