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TECHNICAL DATA SHEET

DBCO PEG Biotin, MW 1000, 2000, 3400, 5000, 10k, 20k

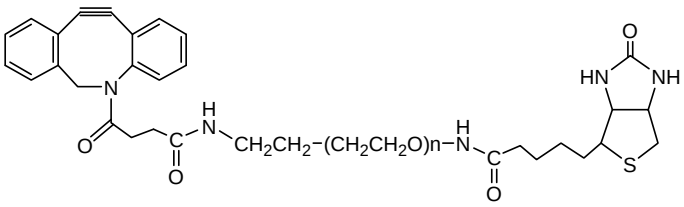
Catalog Numbers: PG2-BNDB-1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Biotin PEG DBCO

Description:

DBCO PEG biotin is one of Nanocs' reactive PEG biotinylation reagents that can go Click Chemistry reaction without a need of any metal catalysts. The strain-promoted 1,3-dipolar cycloaddition of dibenzocyclooctynes (DBCO) and azides, also termed as the Cu-free click reaction, is a bioorthogonal reaction that enables the conjugation of two molecules in aqueous solution. Reaction between azide and DBCO allows quick and efficient labeling of biotin to targeted substrates. **DBCO PEG** Biotin possesses fast kinetics and good stability in aqueous buffer. Conjugated biotin can bind to avidin or streptavidin with high affinity. PEG linker bridged DBCO and biotin offers better water solubility, flexible linker length and good stability.

Product Structure:



Product Specifications:

- Composition: **DBCO PEG Biotin.**
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: Soluble in water, ethanol, chloroform, DMSO, etc.
- Reactive group: DBCO.
- Reactive to: Azide.

Handling and Use:

DBCO 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 DBCO should be stored at -20 ^{0}C. Desiccate. Protect from light. Materials may be handled under inert gas for best stability.

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

Related Products:

DBCO PEG NHS
DBCO PEG Maleimide
DBCO PEG
DBCO PEG COOH
DBCO PEG Thiol
DBCO PEG Folate

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