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TECHNICAL DATA SHEET

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

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

Synonym: DBCO PEG acid, DABCO PEG acid

Description:

DBCO PEG COOH is one of Nanocs' reactive Click Chemistry PEG reagents with a terminal carboxylic group. DBCO (dibenzocyclooctyne) is a cyclooctyne with excellent reactivity toward azide group. The strainpromoted 1,3-dipolar cycloaddition of cyclooctynes and azides, also termed as the Cu-free click reaction, is a bioorthogonal reaction that enables the conjugation of two molecules in aqueous solution with high efficiency. DBCO PEG acid derivatives possess fast kinetics and good stability in aqueous buffer. DBCO group can react with azide-modified biomolecules spontaneous without the need for toxic Cu catalysts. Carboxylic acid group, on the other hand, can react with a number of functional groups such as NH₂, OH, etc. These reactions allow conjugation of DBCO PEG to biomolecules and particles quickly and efficiently.

Product Structure:

Product Specifications:

Composition: DBCO PEG Acid.

Appearance: Pale solid, semi-solid depends

on molecular weight.

Solubility: 10 mg/mL, clear in water,

chloroform and DMSO.

Reactive groups: DBCO, COOH.

Handling and Use:

DBCO 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:

DBCO PEG COOH should be stored at -20 ^oC. 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 NH₂

DBCO PEG Thiol

DBCO PEG Tolate

To Order:

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