

TECHNICAL DATA SHEET

DBCO-NHS, MW 400, 600, 1000, 2000, 3400, 5000, 10k, 20k

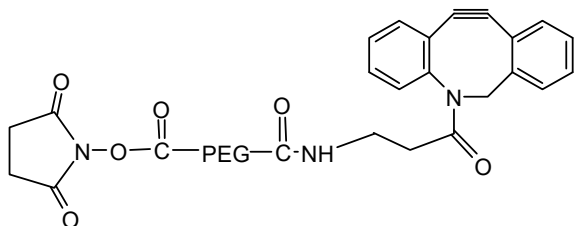
Catalog Numbers: DB-0001-400, 600, 1k, 2k, 3k, 5k, 10k, 20k.

Synonyms: NHS-PEG-DBCO, NHS-x-DBCO

Description:

DBCO PEG NHS is one of Click Bioprobe's amine reactive DBCO PEG derivatives that can go Click Chemistry reaction without a need of any metal catalysts. DBCO (dibenzocyclooctyne) is a **cyclooctyne** that can react with **azide** group directly. The strain-promoted 1,3dipolar 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. DBCO PEG derivatives possess fast kinetics and stability in aqueous buffer. DBCO reagents can be used to label azide-modified biomolecules spontaneously without the need for toxic Cu catalysts. NHS, on the other hand, can react with amine groups at pH 7~10 to form a stable amide bond in aqueous solution.

Product Structure:



Product Specifications:

- Composition: DBCO-NHS.
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: 10 mg/mL, clear in water, ethanol, chloroform, DMSO.
- Stability: >6 months at -20 °C.

Handling and Use:

DBCO-NHS 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 clickbioprobe.com.

Storage Conditions:

DBCO-NHS should be stored at -20 °C. Desiccate. Protect from light. 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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