

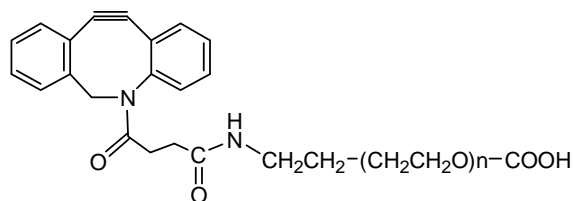
**TECHNICAL DATA SHEET**
**DBCO PEG COOH, MW 1000, 2000, 3400, 5000, 10k, 20k**

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 strain-promoted 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 spontaneously without the need for toxic Cu catalysts. Carboxylic acid group, on the other hand, can react with a number of functional groups such as NH<sub>2</sub>, 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](http://www.nanocs.net).

**Storage Conditions:**

**DBCO PEG COOH** should be stored at -20 °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 NH<sub>2</sub>  
 DBCO PEG Thiol  
 DBCO PEG Folate

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