

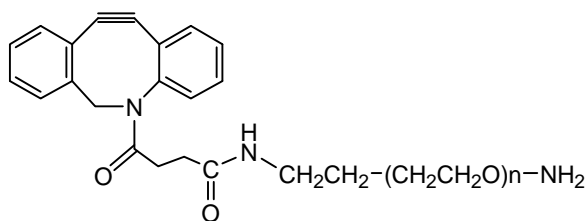
**TECHNICAL DATA SHEET**
**DBCO PEG amine, MW 1000, 2000, 3400, 5000, 10k, 20k**

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

 Synonym: DBCO PEG NH<sub>2</sub>, Amine PEG DBCO, Amino PEG DBCO

**Description:**

**DBCO PEG amine** is one of Nanocs' heterobifunctional **Click Chemistry** derivatives that have a DBCO and an amine group on each PEG terminus. 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** derivatives possess fast kinetics and stability in aqueous buffer. DBCO reagents can be used to label azide-modified biomolecules spontaneously without the need of Cu catalyst. Amine groups, on the other hand, can react with a variety of functional groups such as COOH, NHS, aldehyde. More notably, DBCO PEG amine are soluble in water and easy to use. All pegylation reactions and Click Chemistry can be carried out in aqueous buffer without need any toxic organic solvents.

**Product Structure:**

**Product Specifications:**

- Composition: **DBCO PEG amine.**
- Appearance: Off-white solid, semi-solid depends on molecular weight.
- Solubility: Soluble in water, chloroform, DMSO, etc.
- Reactive groups: DBCO and amine.
- Reactive to: Azide, NHS

**Handling and Use:**

**DBCO PEG amine** 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:**

**Amino PEG DBCO** should be stored at -20 °C. Desiccate. Protect from light. 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:**
[DBCO PEG NHS](#)
[DBCO PEG Maleimide](#)
[DBCO PEG Biotin](#)
[DBCO PEG Folate](#)
[DBCO PEG COOH](#)
[DBCO PEG Thiol](#)
[DBCO PEG](#)
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