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TECHNICAL DATA SHEET

mPEG DBCO, MW 350, 550, 750, 1000, 2000, 5000, 10k, 20k, 30k, 40k

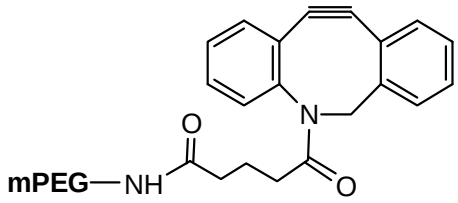
Catalog Numbers: PG1-DB-350, 550, 750, 1k, 2k, 5k, 10k, 20k, 30k, 40k.

Synonym: PEG DBCO, DBCO PEG, DABCO PEG

Description:

mPEG DBCO is one of Nanocs' monofunctional **Click Chemistry** PEG reagents that can react with **azide** group spontaneously without need any catalyst. DBCO (dibenzocyclooctyne) is a cyclooctyne which has excellent reactivity toward azido ($-N_3$) 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. **DBCO PEG** derivatives possess fast kinetics and stability in aqueous buffer. PEG modified DBCO shows better water solubility and excellent reactivity. It is becoming one of most popular pegylation reagents to modify proteins, peptides, antibodies and particles.

Product Structure:



Handling and Use:

For best use, **DBCO PEG** 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 should be stored at -20 ^{0}C. Desiccate. 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 NH_2	DBCO PEG NHS
DBCO PEG Azide	DBCO PEG FITC
DBCO PEG DSPE	DBCO PEG Biotin

Product Specifications:

- Composition: **mPEG DBCO**.
- Appearance: Yellow/light yellow solid or semi-solid
- Purity: > 95%.
- Solubility: Soluble in water, chloroform, DMSO.
- Reactive group: DBCO.
- Reactive to: Azide.

To Order:

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Order by phone:	1(800) 388-4221; 1(888) 908-8803

For more information, visit www.nanocs.net