

TECHNICAL DATA SHEET

Cholesterol PEG DBCO, MW 600, 1000, 2000, 3400, 5k, 10k, 20k

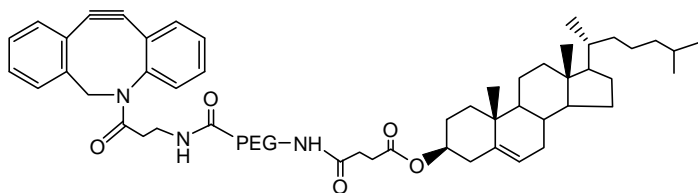
Catalog Numbers: PG2-CSDB-600, 1k, 2k, 3k, 5k, 10k, 20k

Synonym: Cholesteryl PEG DBCO, DBCO PEG Cholesterol

Description:

Cholesterol PEG DBCO is one of Nanocs' lipid PEG derivatives that can react with azide via copper free Click Chemistry. Cholesterol is an essential lipid component to build and maintain basic animal cell function. It is one of animal cell-membrane structure components and establishes proper membrane permeability and fluidity in animal cells. Nanocs' **DBCO** (dibenzocyclooctyne) functionalized **PEG cholesterol** has 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. Reaction between DBCO and azide enables conjugation of cholesterol to azide containing molecules or materials with high efficiency. Resulted cholesterol conjugates can be in cell membrane imaging, liposome formulation and drug delivery.

Product Structure:



Product Specifications:

- Composition: **Cholesterol PEG DBCO.**
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: 10 mg/mL, clear in water, chloroform, DMSO.
- Function group: Cholesterol.
- Reactive group: DBCO.
- Reactive to: Azide.

Handling and Use:

Cholesterol PEG DBCO 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 www.nanocs.net.

Storage Conditions:

DBCO PEG Cholesterol should be stored at -20 °C. Desiccate. 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:

Cholesterol PEG NHS	Cholesterol PEG FITC
Cholesterol PEG DBCO	Cholesterol PEG Azide
Cholesterol PEG Biotin	Cholesterol PEG Amine
Cholesterol PEG Maleimide	

To Order:

 Order online: **www.nanocs.net**

 Order by Email: **sales@nanocs.com**

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

 For more information, visit www.nanocs.net