

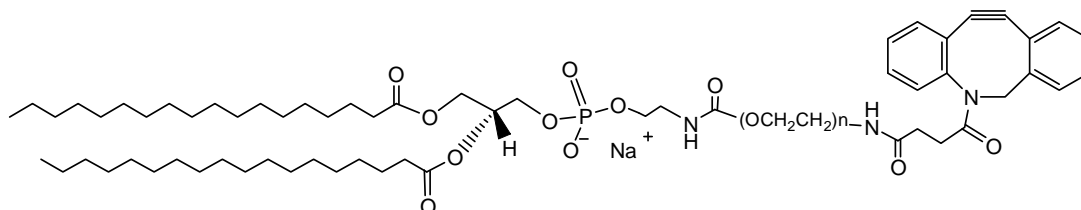
TECHNICAL DATA SHEET**DBCO PEG DSPE, MW 1000, 2000, 3400, 5000, 10k, 20k**

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

Synonym: DSPE PEG DBCO

Description:

DBCO PEG DSPE is one of Nanocs' reactive phospholipid PEG derivatives that can go Click Chemistry reaction with azide group. DBCO (dibenzocyclooctyne) is a commonly used copper free Click Chemistry reagent that has quick and specific reactivity toward azide ($-N_3$) containing molecules. DBCO PEG derivatives possess fast kinetics and good stability in aqueous buffer. Reaction between DBCO and azide group allows the labeling and conjugation of DSPE to targeted substrates with high efficiency. DSPE (1,2-distearoyl-sn-glycero-3-phosphoethanolamine) is an 18 carbon saturated phospholipid that is highly hydrophobic. Pegylated phospholipids are excellent liposome formulation materials that can be used for molecule encapsulation, gene transfection and drug delivery. Pegylation of phospholipids with DBCO PEG DSPE significantly improves the blood circulation time and stability for encapsulated drugs. These materials can also be used for targeted drug delivery by modifying their surfaces with targeting ligands such as antibodies, peptides.

Product Structure:**Product Specifications:**

- Composition: **DBCO PEG DSPE.**
- Appearance: White to off white solid.
- Solubility: Soluble in hot water, chloroform.
- Reactive group: DBCO.

Handling and Use:

For best use, **DBCO PEG DSPE** should 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 DSPE should be stored at -20°C . Desiccate.

This product is for research use only and is not intended for use in humans or for diagnostic use.

The information given in this document is to the best of our knowledge accurate, but no warranty is expressed or implied. It is the user's responsibility to determine the suitability for their own use of the products described herein, and since conditions of use are beyond our control, we disclaim all liability with respect to the use of any material supplied by us. Nothing contained herein shall be construed as a recommendation to use any product or to practice any process in violation of any law or any government regulation.