

TECHNICAL DATA SHEET

DBCO PEG Silane, MW 2000, 3400, 5000, 10k, 20k

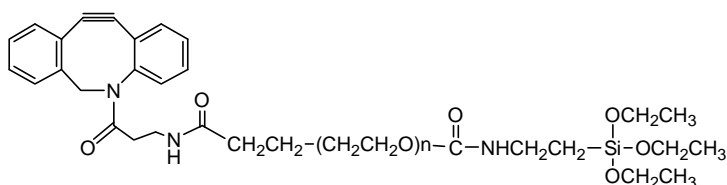
Catalog Numbers: PG2-DBSL-2k, 3k, 5k, 10k, 20k.

Synonym: Silane PEG DBCO, DABCO PEG Silane

Description:

DBCO PEG Silane is one of Nanocs' surface reactive silane PEG derivatives that can go Click Chemistry reaction without a need of any metal catalysts. DBCO (dibenzocyclooctyne) is a cyclooctyne which has excellent reactivity toward azido (-N₃) 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 good stability in aqueous buffer. Alkoxyl silane groups, on the other hand, hydrolyze readily in aqueous solution and they can react with OH groups in 30~60 min in room temperature. Reaction between alkoxy silane and hydroxy group allows attachment of DBCO PEG to various surfaces with high efficiency. Silane functional PEGs are useful reagents to modify silica particles, glass surface, or PDMS silanes.

Product Structure:



Product Specifications:

- Composition: **DBCO PEG Silane.**
- Appearance: White/off-white solid, semi-solid
- Solubility: 10 mg/mL, clear in water, ethanol, chloroform, DMSO.
- Reactive groups: DBCO, silane.
- Reactive to: Azide, OH.

Handling and Use:

DBCO PEG Silane 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:

Silane 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 3 months.

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

To Order:

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