

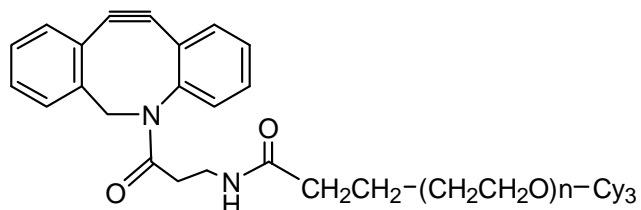
TECHNICAL DATA SHEET**DBCO PEG Cy3, MW 2000, 3400, 5000, 10k, 20k**

Catalog Numbers: PG2-DBS3-2k, 3k, 5k, 10k, 20k.

Synonym: Cy3 PEG DBCO, Cy3 PEG DABCO

Description:

DBCO PEG Cy3 is one of Nanocs' fluorescent DBCO PEG derivatives that can go Click Chemistry reaction without a need of any metal catalysts. 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. DBCO PEG derivatives possess fast kinetics and stability in aqueous buffer. Reaction between DBCO and azide allows the labeling and conjugation of Cy3 dye to targeted molecules fast and efficiently. Cy3 is a red fluorescent molecule with excitation/emission wavelength at 550 nm/570 nm. It emits strong red fluorescent light that can be easily detected. PEG linker between DBCO and Cy3 offers good water solubility, flexible linker structure and enhanced stability.

Product Structure:**Product Specifications:**

- Composition: **DBCO PEG Cy3.**
- Appearance: Dark red solid, semi-solid depends on molecular weight.
- Solubility: Soluble in water, chloroform, DMSO, DMF.
- Reactive group: DBCO.
- Ex/Em wavelength: 550 nm/570 nm.

Handling and Use:

DBCO PEG Cy3 is sensitive to light and temperature. For best use, material should always be kept in low temperature, protect from light. Prepare fresh solution right before use. Avoid frequent thaw and freezing. For more information about using this product, visit www.nanocs.net.

Storage Conditions:

Cy3 PEG DBCO product should be stored at -20 °C. Protect from light.

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 FITC

DBCO PEG NH₂
DBCO PEG Thiol
DBCO PEG Cy5

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