

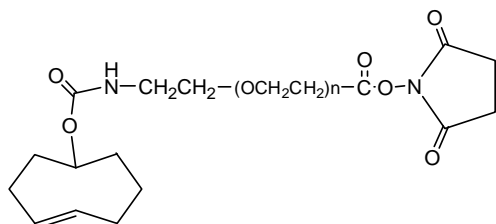
TECHNICAL DATA SHEET**TCO PEG NHS, MW 2000, 3400, 5000, 10k, 20k**

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

Synonym: NHS PEG TCO

Description:

TCO (transcyclooctene) PEG NHS is one of Nanocs' copper free Click Chemistry PEG reagents that contain a TCO and an amine reactive NHS group on each PEG terminus. NHS PEG TCO is reactive toward tetrazine and amine containing molecules. The copper free click chemistry reaction of **tetrazine** and **TCO** is a bioorthogonal reaction that enables the conjugation of two molecules in aqueous solution fast and efficiently. Succinimidyl ester (**NHS**), meanwhile, can react with primary amine group at pH 7.5-10 with high reactivity. Compared to other click chemistry reagents, TCO PEG derivatives possess fast kinetics and have excellent water solubility; all reactions can be carried out in aqueous buffer without need adding any organic solvents.

Product Structure:**Product Specifications:**

- Composition: **TCO PEG NHS.**
- Appearance: White/Off-white solid.
- Solubility: Soluble in water and DMSO.
- Reactive groups: TCO and NHS.
- Reactive to: Tetrazine and primary amine.

Handling and Use:

TCO PEG NHS 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:

TCO PEG NHS should be stored at -20 °C. Desiccate. Materials may be handled under inert gas for best stability. Re-test material after 6 months.

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

Related Products:

TCO PEG Amine
TCO PEG amine
TCO PEG FITC

Tetrazine PEG Maleimide
TCO PEG Biotin

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