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TECHNICAL DATA SHEET

TCO PEG Maleimide, MW 2000, 3400, 5000, 10k, 20k

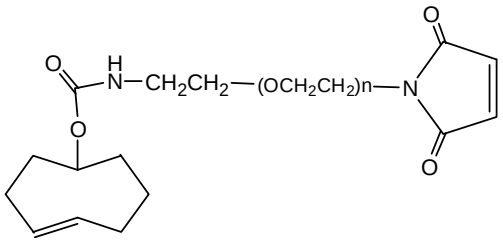
Catalog Numbers: PG2-MLTC-2k, 3k, 5k, 10k, 20k

Synonym: Maleimide PEG TCO

Description:

TCO (transcyclooctene) PEG Maleimide is one of Nanocs' copper free Click Chemistry PEG reagents that contain a TCO and a thiol reactive maleimide group on each PEG terminus. Maleimide PEG TCO is reactive toward tetrazine and thiol group 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. **Maleimide**, meanwhile, can react with free sulfhydryl (-SH) group at pH 6.5-7.5 with high reactivity and specificity. 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 Maleimide**.
- Appearance: White/Off-white solid.
- Solubility: Soluble in water and DMSO.
- Reactive groups: TCO and Maleimide.
- Reactive to: Tetrazine and thiol.

Handling and Use:

TCO PEG Maleimide 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 Maleimide should be stored at -20 ^{0}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 NHS
TCO PEG amine
TCO PEG FITC
Tetrazine PEG Maleimide
TCO PEG Biotin

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