

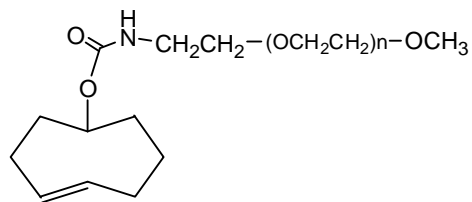
**TECHNICAL DATA SHEET****mPEG TCO, MW 2000, 3400, 5000, 10k, 20k**

Catalog Numbers: PG1-TC-2k, 3k, 5k, 10k, 20k

Synonym: TCO PEG, Transcyclooctene PEG, methoxy PEG TCO

**Description:**

**mPEG TCO (transcyclooctene)** is one of Nanocs' Click Chemistry PEG derivatives that have a reactive transcyclooctene (TCO) group. TCO reacts with **tetrazine** group quickly and specifically. The reaction between **tetrazine** and **TCO** is a bioorthogonal reaction that enables the conjugation of two molecules in aqueous solution fast and efficiently. **PEG TCO** derivatives have excellent water solubility; possess fast kinetics and have high stability in aqueous buffer. Reaction of TCO with tetrazine allows quickly attachment of PEG chain to correspondent substrates. TCO PEG is one of the best pegylation reagents to modify proteins, peptides, antibodies, biopolymers and particles via so called copper free Click Chemistry reaction.

**Product Structure:****Product Specifications:**

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

**Handling and Use:**

**TCO PEG** 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](http://www.nanocs.net).

**Storage Conditions:**

**mPEG TCO** 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 NHS  
TCO PEG Biotin  
NHS PEG Tetrazine  
Tetrazine PEG Biotin

TCO PEG Maleimide  
TCO PEG amine  
Tetrazine PEG Maleimide  
Tetrazine PEG amine

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