

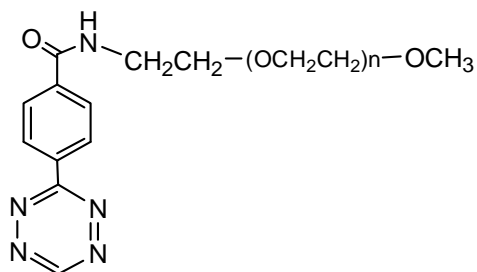
**TECHNICAL DATA SHEET****mPEG Tetrazine, MW 550, 750, 1000, 2000, 5000, 10 kD, 20 kD, 30 kD, 40 kD**

Catalog Numbers: PG1-TZ-550, 750, 1k, 2k, 5k, 10k, 20k, 30k, 40k

Synonym: Tetrazine PEG, PEG tetrazine

**Description:**

**mPEG tetrazine** is one of Nanocs' Click Chemistry PEG derivatives that have a terminal **tetrazine** group. Tetrazine reacts with Transcyclooctene (TCO) 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. Tetrazine modified PEG thus can be easily attached to TCO modified proteins, peptides, antibodies and other materials. **Tetrazine PEG** derivatives have excellent water solubility; possess fast kinetics and have high stability in aqueous buffer. They are one of the best pegylation reagents to modify proteins, peptides, antibodies, biopolymers and particles via copper free Click Chemistry reaction.

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

- Composition: **mPEG Tetrazine.**
- Appearance: Light pink solid, semi-solid depends on molecular weight.
- Solubility: 10 mg/mL, clear in water, chloroform, DMSO.
- Reactive group: Tetrazine.
- Reactive to: TCO.

**Handling and Use:**

**Tetrazine PEG** should always be kept in low temperature. 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:**

**PEG tetrazine** should be stored at  $-20\text{ }^{\circ}\text{C}$  or lower. Protect from light. 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:**

Tetrazine PEG NHS  
Tetrazine PEG COOH  
Tetrazine PEG Maleimide

Tetrazine PEG  $\text{NH}_2$   
Tetrazine PEG DSPE  
Tetrazine PEG Biotin

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