

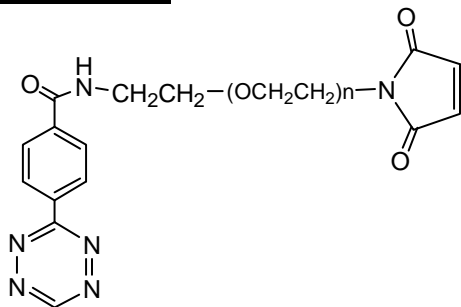
**TECHNICAL DATA SHEET****Tetrazine PEG Maleimide, MW 1000, 2000, 3400, 5000, 10k, 20k**

Catalog Numbers: PG2-MLTZ-1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Maleimide PEG Tetrazine, TZ-PEG-Mal

**Description:**

**Tetrazine PEG Maleimide** is one of Nanocs' Click Chemistry PEG crosslinkers that contain a tetrazine and a maleimide group on each PEG terminus. Maleimide PEG tetrazine can react with **TCO** (transcyclooctene) group containing molecules via copper free Click Chemistry. Click chemistry between tetrazine and TCO is a bioorthogonal reaction that enables the conjugation of two molecules in aqueous solution fast and efficiently. Maleimide functional tetrazine PEG is able to react with sulfhydryl groups from proteins, peptides or antibodies quickly and specifically; thus to allow fast attachment of tetrazine tag to above substrates. Compared to other tetrazine molecules, Tetrazine PEG maleimide is water soluble and easy to use; all reactions can be carried out in aqueous buffer without need adding any organic solvents.

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

- Composition: **Tetrazine PEG Maleimide.**
- Appearance: Light pink solid, semi-solid depends on molecular weight.
- Solubility: 5 mg/mL, clear in water, chloroform, DMSO.
- Reactive groups: Tetrazine and Maleimide.
- Reactive to: TCO and Thiol.

**Handling and Use:**

**Tetrazine PEG Maleimide** is sensitive to light and temperature. For best use, material should always be kept in low temperature in dry condition. Protect from light. Avoid frequent thaw and freezing. For more information about using this product, visit [www.nanocs.net](http://www.nanocs.net).

**Storage Conditions:**

**Maleimide PEG Tetrazine** should be stored at -20 °C. Protect from light. 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 NH2  
Tetrazine PEG FITC  
Tetrazine PEG SH

Tetrazine PEG COOH  
Tetrazine PEG Maleimide  
Tetrazine PEG Biotin

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