

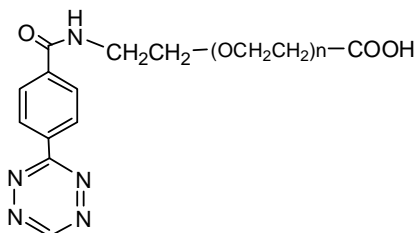
**TECHNICAL DATA SHEET****Tetrazine PEG acid, MW 1000, 2000, 3400, 5000, 10k, 20k**

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

Synonym: Carboxylic acid PEG Tetrazine, TZ-PEG-COOH

**Description:**

**Tetrazine PEG acid (Tetrazine-PEG-COOH)** is one of Nanocs' Copper free Click Chemistry PEG crosslinkers that contain a terminal tetrazine and carboxylic acid group linked through a linear PEG chain. Tetrazine PEG acid can react with TCO (transcyclooctene) 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. Meanwhile, carboxylic group on this molecule can be used to react with a number of functional groups such as amine or hydroxy. Compared to other tetrazine molecules, Tetrazine PEG acid 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 acid.**
- Appearance: Light pink solid, semi-solid depends on molecular weight.
- Solubility: 5 mg/mL, clear in water, chloroform, DMSO.
- Reactive groups: Tetrazine and COOH.
- Reactive to: TCO and  $\text{NH}_2$ , OH, etc.

**Handling and Use:**

**Tetrazine PEG acid** 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:**

**Acid PEG Tetrazine** should be stored at  $-20\text{ }^\circ\text{C}$ . Protect from light. Re-test material after 12 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 FITC  
Tetrazine PEG SH

Tetrazine PEG amine  
Tetrazine PEG Maleimide  
Tetrazine PEG Biotin

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