Tel: 1(800)388-4221 Fax: 1(917)591-2212 Email: info@nanocs.com

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 tretrazine 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:

$$\begin{array}{c|c} & H \\ & N \\ & CH_2CH_2 - (OCH_2CH_2)n - COOH \\ \hline \\ & N \\ & N \\ & N \\ & N \\ \end{array}$$

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 NH₂, 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.**

Storage Conditions:

Acid PEG Tetrazine should be stored at -20 °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 amine
Tetrazine PEG FITC
Tetrazine PEG Maleimide
Tetrazine PEG SH
Tetrazine PEG Biotin

To Order:

Order online: www.nanocs.net

Order by Email: sales@nanocs.com

Order by phone: 1(800) 388-4221; 1(888)

908-8803

For more information, visit www.nanocs.net

The information given in this document is to the best of our knowledge accurate, but no warranty is expressed or implied. It is the user's responsibility to determine the suitability for their own use of the products described herein, and since conditions of use are beyond our control, we disclaim all liability with respect to the use of any material supplied by us. Nothing contained herein shall be construed as a recommendation to use any product or to practice any process in violation of any law or any government regulation.