

TECHNICAL DATA SHEET

Tetrazine PEG Thiol, MW 2000, 3400, 5000, 10k, 20k

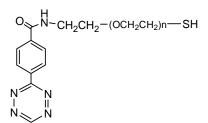
Catalog Numbers: PG2-THTZ-2k, 3k, 5k, 10k, 20k

Synonym: Tetrazine PEG SH, HS PEG Tetrazine, Sulfhydryl PEG Tetrazine

Description:

Tetrazine PEG Thiol (TZ-PEG-SH) is one of Nanocs' copper free Click Chemistry PEG reagents that contain a terminal tetrazine and a thiol group linked through a linear PEG chain. Tetrazin PEG that can react with TCO (transcyclooctene) group via copper free click chemistry. Click chemistry reaction of tetrazine and TCO is a bioorthogonal reaction that enables the conjugation of two molecules in aqueous solution fast and efficiently. Meanwhile, free sulfhydryl (thiol) group can be used to react with many thiol reactive groups, such as maleimide and pyridyldisulfide. Thiol group can also be used to bind to the noble metal surface such as gold particle or film surface. Tetrazine PEG derivatives have excellent water solubility; possess fast kinetics and have good stability in aqueous buffer. All reactions can be carried out in aqueous buffer without need adding any organic solvents.

Product Structure:



Product Specifications:

- Composition: Tetrazine PEG Thiol.
- Appearance: Light pink solid.
- Solubility: Soluble in water and DMSO.
- Reactive groups: Tetrazine and thiol.
- Reactive to: TCO.

Handling and Use:

Tetrazine PEG thiol 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**.

Storage Conditions:

Thiol PEG Tetrazine should be stored at -20 ^oC. 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:

Tetrazine PEG NHS Tetrazine PEG NH2 Tetrazine PEG FITC Maleimide PEG Tetrazine Tetrazine PEG Biotin

<u>To Order:</u>	
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.