

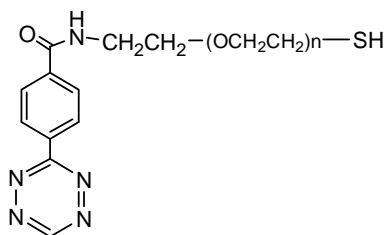
TECHNICAL DATA SHEET**Tetrazine PEG Thiol, MW 2000, 3400, 5000, 10k, 20k**

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. Tetrazine 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 $-20\text{ }^{\circ}\text{C}$. 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

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