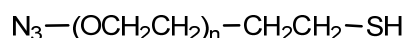


TECHNICAL DATA SHEET**Azide PEG Thiol, MW 600, 1000, 2000, 3400, 5000, 10k, 20k**

Catalog Numbers: PG2-AZTH-600, 1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Azido PEG thiol, N₃-PEG-SH, Thiol PEG azide, HS-PEG-N₃**Description:**

Azide PEG thiol (N₃-PEG-SH), also called azido PEG thiol, is one of Nanocs' thiolated Click Chemistry PEG derivatives. Azide reacts with alkyne group efficiently in aqueous solution catalyzed by copper ions. 1,3-dipolar cycloaddition between alkyne and azide is a high yield Click Chemistry reaction that enables conjugation of two correspondent molecules together with high efficiency. Azide can also react with strain promoted cyclooctyne without need any catalyst. Meanwhile, thiol/sulfhydryl group can react with a variety of thiol reactive groups such as maleimides, vinyls, iodoacetyl, etc. It can also be used for gold particle or film modification due to strong binding affinity between thiol and noble metal surfaces. PEG linker between azide and thiol offers better water solubility, flexible linker structure and enhanced stability.

Product Structure:**Product Specifications:**

- Composition: **Azide PEG thiol.**
- Appearance: White/off-white solid or viscous liquid.
- Solubility: Soluble in water, ethanol, chloroform, DMSO.
- Reactive groups: Azide, thiol.

Handling and Use:

Azido PEG thiol 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:

Azide PEG thiol should be stored at -20 °C. Desiccate. Protect from air. Materials may be handled under inert gas for best stability. 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:

Azide PEG Maleimide

Azide PEG NH₂

Azide PEG NHS

Azide PEG Folate

Azide PEG FITC

Azide PEG Biotin

Azide PEG Silane

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