

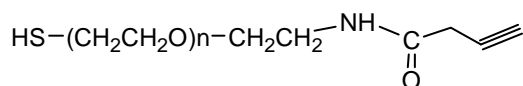
TECHNICAL DATA SHEET**Alkyne PEG Thiol, MW 1000, 2000, 3400, 5000, 10k, 20k**

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

Synonym: Thiol PEG Alkyne, Alkyne PEG SH

Description:

Alkyne PEG thiol is one of Nanocs' heterobifunctional **Click Chemistry PEG** derivatives that can react with azide groups. Alkyne group reacts with azide through 1,3-dipolar cycloaddition to yield a 1,2,3-triazole linkage. This reaction proceeds well in aqueous solution catalyzed by copper ions. Alkyne and azide reaction is one of the most commonly used Click Chemistry reactions that enable the conjugation of two correspondent molecules together with high yield. Meanwhile, thiol group on this molecule can react with a number of thiol reactive groups, such as maleimide, iodoacetylene, etc. It can also bind to gold nanoparticle surface with high affinity. PEG linker between alkyne and thiol offers good water solubility, less steric hindrance and enhanced stability.

Product Structure:**Product Specifications:**

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

Handling and Use:

For best use, **alkyne 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:

Alkyne PEG thiol should be stored at -20 °C. Desiccate. Protect from light. 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:

Alkyne PEG amine

Alkyne PEG COOH

Alkyne PEG NHS

Alkyne PEG Maleimide

Alkyne PEG Hydrazide

Alkyne PEG Biotin

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