

#### **TECHNICAL DATA SHEET**

## Alkyne PEG NHS, MW 1000, 2000, 3400, 5000, 10k, 20k

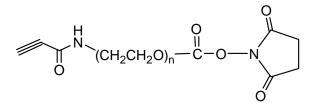
Catalog Numbers: PG2-AKNS-1k, 2k, 3k, 5k, 10k, 20k.

Synonym: NHS PEG Alkyne

### **Description:**

Alkyne PEG NHS is one of Nanocs' heterobifunctional Click Chemistry PEG reagents that can react with azide and amine groups. Alkyne group reacts readily with azide group via Huisgen 1,3-diploar cycloaddition, one of most commonly used Click Chemistry reactions. This reaction proceeds well in aqueous solution at room temperature catalyzed by cooper ions. Meanwhile, NHS ester reacts with primary amine group at pH 7~10 to form a stable amide bond. PEG linker between alkyne and NHS offers better water solubility, flexible linker structure and enhanced stability. NHS functional alkyne PEG allows attachment of alkyne PEG to targeted molecules or materials with high efficiency. Attached alkyne group can be used for further click chemistry reactions.

### **Product Structure:**



# Product Specifications:

- Composition: Alkyne PEG NHS.
- Appearance: White/off-white solid or viscous liquid.
- Solubility: Soluble in water, chloroform, DMSO.
- Reactive group: **NHS** and **alkyne**.
- Reactive to: Azide and amine.

### Handling and Use:

For best use, **Alkyne PEG NHS** 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 NHS** should be stored at -20 <sup>o</sup>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:**

Alkyne PEG amine Alkyne PEG COOH Biotin PEG DBCO Alkyne PEG Maleimide Biotin PEG Azide Thiol PEG Biotin

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