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#### **TECHNICAL DATA SHEET**

# Aminooxy PEG Aminooxy, MW 600, 1000, 2000, 3400, 5000, 10k, 20k.

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

Synonym: Aminooxy PEG Oxyamine, Oxyamine PEG Oxyamine, NH2O-PEG-ONH2

### **Description:**

Aminooxy PEG Aminooxy (NH<sub>2</sub>O-PEG-ONH<sub>2</sub>) is one of Nanocs' homobifunctional, carbonyl reactive PEG derivatives that can be used to modify carbohydrates, glycosylated antibodies, proteins, peptides and enzymes. Aminooxy reacts readily with carbonyl group (aldehyde or ketone) derived from polysaccharides to form a stable oxime bond, which is more stable than the Schiff base formed between amine and aldehyde group. Reaction of aminooxy and carbonyl group enables conjugation of functionalized PEG molecules to various targeted biomolecules and material surface quickly and efficiently. PEG linker between two aminoxy groups offers better water solubility, less steric hindrance and enhanced reactivity.

**Product Structure:** 

H<sub>2</sub>NO-CH<sub>2</sub>CH<sub>2</sub>-(OCH<sub>2</sub>CH<sub>2</sub>)n-CH<sub>2</sub>CH<sub>2</sub>-ONH<sub>2</sub>

right before use. Avoid frequent thaw and freezing. For more information about using this product, visit www.nanocs.net.

### **Storage Conditions:**

**Oxyamine PEG Oxyamine** should be stored at 4~8  $^{0}$ C. Desiccate. 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:**

Aminooxy PEG Azide Aminooxy PEG Biotin Fluorescein PEG Aminooxy Cholesterol PEG Aminooxy Aminooxy PEG Maleimide DSPE PEG Aminooxy DBCO PEG Aminooxy

## **Product Specifications:**

Composition: Aminooxy PEG Aminooxy.

Appearance: White/off-white solid, semi-solid

or liquid depends on molecular

weight.

Solubility: Soluble in water, chloroform,

DMSO, etc.

Reactive group: Aminooxy (-ONH2).

Reactive to: Carbonyl group.

# Handling and Use:

**Aminooxy PEG Aminooxy** should always be kept in low temperature in dry condition. Prepare fresh solution

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Order by phone: 1(800) 388-4221; 1(888)

908-8803

For more information, visit www.nanocs.net

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