

**TECHNICAL DATA SHEET**

## Azide PEG Maleimide, MW 400, 600, 1000, 2000, 3400, 5000, 10k, 20k

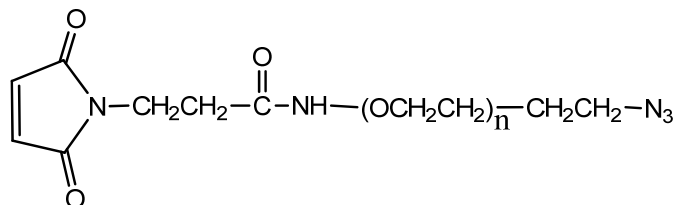
Catalog Numbers: PG2-AZML-400, 600, 1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Azido PEG Maleimide, Maleimide PEG Azide

### Description:

**Azide PEG maleimide (N<sub>3</sub>-PEG-Mal)**, also called **Azido PEG Maleimide**, is one of Nanocs' thiol reactive "Click Chemistry" PEG crosslinking reagents. Maleimide reacts rapidly with free sulfhydryl/thiol group at pH 6.5-7.5 to form a stable, non-cleavable thioether bond. Reaction of maleimide and thiol enables fast and efficient conjugation of azide functional PEG to targeted molecules or materials. Resulted azide group can react with linear alkyne group catalyzed by copper ions. It can also react directly with strained alkyne such as DBCO without need any catalyst. PEG linker between azide and maleimide offers better water solubility, less steric hindrance and enhanced stability. Nanocs **Pegylated Azide Maleimide** is readily soluble in water and all reactions can be carried out in aqueous buffer without adding any organic solvents.

### Product Structure:



### Product Specifications:

- Composition: **Azide PEG Maleimide.**
- Appearance: White/off-white solid or semi-liquid.
- Solubility: 10 mg/mL, clear in water, chloroform, or DMSO.
- Reactive group: Maleimide.
- Reactive to: Sulfhydryl/thiol.

### Handling and Use:

For best use, **Azido PEG Maleimide** 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](http://www.nanocs.net).

### Storage Conditions:

**Maleimide PEG Azide** should be stored at -20 °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:

Azide PEG NHS	Azide PEG COOH
Azide PEG amine	Azide PEG Biotin
Azide PEG Thiol	

### To Order:

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