

**TECHNICAL DATA SHEET****Methoxypolyethylene glycol Maleimide, mPEG-Maleimide**

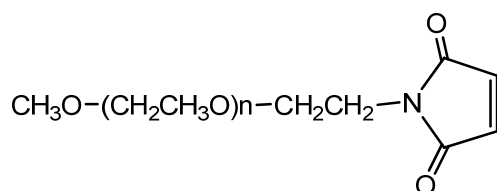
Catalog Numbers: PG1-ML-350, 550, 750, 1k, 2k, 5k, 10k, 20k, 30k, 40k.

CAS number: 99126-64-4 | MDL number MFCD00803681

Synonym: Methoxy PEG Maleimide, mPEG-Mal, MeO-PEG-Mal, PEG maleimide, Maleimide PEG, Maleimide polyethylene glycol methyl ether.

**Description:**

**mPEG Maleimide** is one of Nanocs' thiol reactive pegylation reagents that contain a terminal maleimide group. Maleimide reacts with free sulfhydryl/thiol group at pH 6.5-7.5 quickly and efficiently. Reaction of maleimide and thiol results a stable, non-cleavable thioether bond. The linear, hydrophilic polyethylene glycol linked to maleimide imparts good water solubility that can be transferred to the pegylated molecules. Maleimide PEG is one of the most frequently used site-specific pegylation reagents due to its high reactivity and specificity to sulfhydryl from cysteine residues contained in peptides, proteins, antibodies and many other materials. Compared to other pegylation reagents, our **Maleimide PEG** products have high purity, narrow molecular weight distribution and excellent reactivity. More notably, these maleimide PEGs are soluble in water and all reactions can be carried out in aqueous buffer without need adding any organic solvents.

**Product Structure:****Product Specifications:**

- Composition: **mPEG Maleimide.**
- Appearance: White/Off-white solid, semi-solid depends on molecular weight of PEG.
- Purity: > 95%.
- Solubility: 10 mg/mL, clear in water, chloroform, DMSO.
- Reactive group: Maleimide.

**Handling and Use:**

**PEG maleimide** derivatives undergo hydrolysis at elevated temperature. All **maleimide PEG** derivatives 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** products 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:**Maleimide PEG acid  
Maleimide PEG amine  
Maleimide PEG FITCMaleimide PEG NHS  
Maleimide PEG Biotin  
DSPE PEG Maleimide**To Order:**Order online: [www.nanocs.net](http://www.nanocs.net)Order by Email: [sales@nanocs.com](mailto:sales@nanocs.com)Order by phone: 1(800) 388-4221; 1(888)  
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