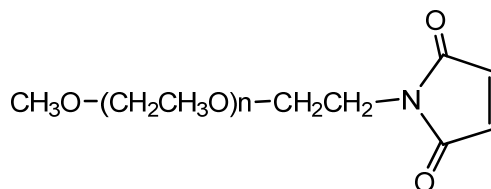


**TECHNICAL DATA SHEET****mPEG-Maleimide, Pack 5, MW 2000, 5000, 10 kD, 20 kD, 30 kD**

Catalog#: P1P-ML-5

**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 between 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, MW 2000, 5000, 10 kD, 20 kD, 30 kD, 100 mg each
- Appearance (form): Solid
- Appearance (color): White to light brown
- Solubility: 20 mg/mL, clear in water and chloroform
- Reactive to: Sulfhydryl (-SH)

**Storage Conditions:**

**mPEG maleimide** should be stored at -20 0C. Protect from light. Retest material 6 months after receiving.

**Handling and Use:**

For best use, Maleimide PEG should always be kept at 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).

**This product is for research and manufacturing use only.**

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