

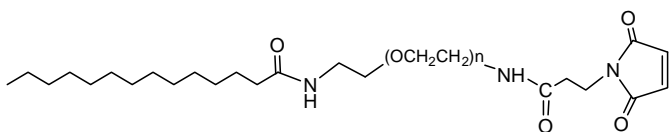
**TECHNICAL DATA SHEET****Myristic acid PEG Maleimide, MW 1000, 2000, 3400, 5000, 10k, 20k**

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

Synonym: Maleimide PEG Myristic acid

**Description:**

**Myristic acid PEG Maleimide** is one of Nanocs' reactive lipid PEG derivatives that have a C14 saturated fatty acid attached to one PEG terminus. Maleimide functional group on the other PEG end can react with free thiol/sulphydryl (-SH) groups derived from proteins, antibodies, peptides and many other molecules. This reaction proceeds at neutral pH quickly and efficiently. Reaction between thiol and maleimide allows attachment of hydrophobic aliphatic alkane moiety to various substrates. PEG linker between myristic acid and maleimide group offers better water solubility, flexible linker structure and enhanced stability. Pegylated myristic acid is amphiphilic and it can be used for liposome and micelle formulation. PEG modified myristic acid exhibits unique chemical and physical properties and its applications have been expanded to many biomedical fields including drug delivery, bioassay development and medical device modification.

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

- Composition: **Myristic acid PEG Maleimide.**
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: 10 mg/mL, clear in warm water, chloroform.
- Reactive group: Maleimide
- Reactive to: Sulphydryl.

**Handling and Use:**

**Myristic acid PEG Maleimide** is sensitive to moisture and temperature. For best use, material 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 Myristic acid** 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:**

Myristic acid PEG NHS  
Myristic acid PEG COOH  
Myristic acid PEG Azide

Myristic acid PEG NH<sub>2</sub>  
Myristic acid PEG Thiol  
Myristic acid e PEG Biotin

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