

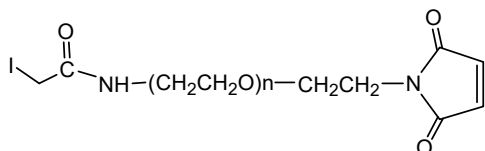
**TECHNICAL DATA SHEET****Iodoacetyl PEG Maleimide, MW 1000, 2000, 3400, 5000, 10k, 20k**

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

Synonym: Iodoacetate PEG Maleimide, Maleimide PEG Iodoacetate, IA-PEG-Mal

**Description:**

Nanocs' **Iodoacetyl and Maleimide** functionalized polyethylene glycol (**IA-PEG-Mal**) is a thiol (-SH) reactive PEG derivative which can be used to modify protein, peptide, particles and other materials via its thiol reactive **maleimide** and **iodoacetyl** groups. Iodoacetyl group reacts readily with free thiol groups at pH 7.0-10 at aqueous solution while Maleimide groups can react with sulfhydryl group at pH 6.5-7.5. PEGylation can increase stability and reduce immunogenicity of pegylated peptides and proteins. It can also suppress the non-specific binding of charged molecules to the modified surfaces.

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

- Composition: **Iodoacetyl PEG Maleimide.**
- Appearance: off-white/pale-yellow solid, semi-solid depends on molecular weight.
- Solubility: Soluble in water, chloroform, DMSO.
- Reactive group: Maleimide and Iodoacetyl.
- Reactive to: **Free thiols (-SH).**

**Handling and Use:**

**Iodoacetyl 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 Iodoacetate** should be stored at -20 °C. Desiccate. Protect from light. 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 NHS](#)[Biotin PEG Maleimide](#)**To Order:**Order online: **www.nanocs.net**Order by Email: [sales@nanocs.com](mailto:sales@nanocs.com)

Order by phone: 1(800) 388-4221; 1(888) 908-8803

For more information, visit [www.nanocs.net](http://www.nanocs.net)

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