

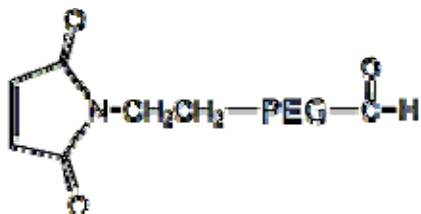
TECHNICAL DATA SHEET**Maleimide PEG Aldehyde, MW 2000, 3400, 5000, 10k, 20k**

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

Synonym: Aldehyde PEG Maleimide, Mal-PEG-CHO, Ald PEG Mal

Description:

Maleimide PEG Aldehyde (Mal-PEG-Ald) is one of Nanocs' heterofunctionalized polyethylene glycol crosslinkers that are reactive toward thiol (-SH) and N-terminus amine (-NH₂) groups. Aldehyde functionalized PEG is a commonly used site-specific pegylation reagent that reacts N-terminal amines at acidic conditions. Aldehyde reacts with N-terminus amine to form an intermediate Schiff base. Further reduction with hydride will form a stable C-N bond. Higher pH will result in multiple pegylation with both terminal amine and lysine groups. Meanwhile, **maleimide** group can react with free sulfhydryl/thiol groups at pH 6.5~7.5 with quickly and efficiently. PEG linker between maleimide and aldehyde groups offers better water solubility, flexible spacer length and enhanced reactivity.

Product Structure:**Product Specifications:**

- Composition: **Maleimide PEG Aldehyde.**
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: Soluble in water, ethanol, chloroform, DMSO, etc.
- Reactive groups: Maleimide and aldehyde
- Reactive to: N-terminal amine and thiol.

Handling and Use:

Maleimide PEG aldehyde 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.

Storage Conditions:

Aldehyde PEG Maleimide 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:Aldehyde PEG FITC
Aldehyde PEG OPSSAldehyde PEG COOH
Aldehyde PEG FITC**To Order:**Order online: www.nanocs.netOrder by Email: sales@nanocs.com

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

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