

TECHNICAL DATA SHEET

Silane PEG Maleimide, MW 600, 1000, 2000, 3400, 5000, 10k, 20k

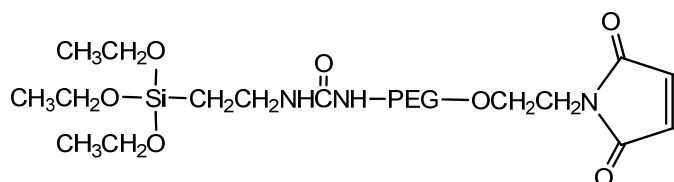
Catalog Numbers: PG2-MLSL-600, 1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Maleimide PEG Silane, Si-PEG-Mal

Description:

Silane PEG maleimide (Si-PEG-Mal) is one of Nanocs' surface reactive polyethylene glycol pegylation and silanization reagents that contain a triethoxysilane and a maleimide group. Maleimide PEG Silane can be used to modify glass, silica and other material surfaces via the reaction between hydroxyl group and alkoxy silane group. Triethoxyl or trimethoxyl silane can react with OH groups easily with catalytic amount of water. Meanwhile, maleimide reacts with sulfhydryl group at pH 6.5~7.5 quickly and efficiently. PEG linker between alkoxy silane and maleimide group offers better water solubility, less steric hindrance and enhanced reactivity. Compared to other organic silane molecules, Nanocs' silane PEG derivatives are hydrophilic and biocompatible. All silanization reactions can be performed in aqueous solution without adding any organic solvents. Alkoxy groups hydrolyze rapidly in aqueous solution and reaction can be completed at room temperature in 30~60 min.

Product Structure:



Product Specifications:

- Composition: **Silane PEG Maleimide.**
- Appearance: Solid, semi-solid depends on molecular weight.
- Appearance: off-white/white.
- Solubility: >10 mg/mL in water, ethanol, chloroform, DMSO, etc.
- Reactive groups: Alkoxy silane and maleimide.

Handling and Use:

Silane 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. We recommend using the product within 3 months after receiving. Avoid frequent thaw and freezing. For more information about using this product, visit www.nanocs.net.

Storage Conditions:

Maleimide PEG Silane should be stored at -20 °C. Desiccate. Protect from light. Materials may be handled under inert gas for best stability. Re-test material after 3 months.

This product is for research use only and is not intended for use in humans or for diagnostic use.

Related Products:

Silane PEG NH ₂	Silane PEG NHS
Silane PEG Azide	Silane PEG FITC
Silane PEG DBCO	Silane PEG Biotin

To Order:

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