Tel: 1(800)388-4221 Fax: 1(917)591-2212 Email: info@nanocs.com

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 alkoxyl silane group. Triethoxyl or trimethoxyl silane can reacts 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 alkoxysilane 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. Alkoxyl 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: Alkoxysilane 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 NH₂ Silane PEG NHS Silane PEG Azide Silane PEG FITC Silane PEG DBCO Silane PEG Biotin

To Order:

Order online: www.nanocs.net

Order by Email: sales@nanocs.com

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

908-8803

For more information, visit www.nanocs.net

The information given in this document is to the best of our knowledge accurate, but no warranty is expressed or implied. It is the user's responsibility to determine the suitability for their own use of the products described herein, and since conditions of use are beyond our control, we disclaim all liability with respect to the use of any material supplied by us. Nothing contained herein shall be construed as a recommendation to use any product or to practice any process in violation of any law or any government regulation.