

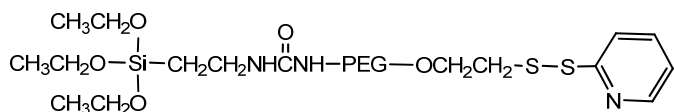
**TECHNICAL DATA SHEET**
**Silane PEG OPSS, MW 1000, 2000, 3400, 5000, 10k, 20k**

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

Synonym: OPSS PEG Silane, Silane PEG PDP, PDP PEG Silane

**Description:**

**Silane PEG OPSS** (Si-PEG-OPSS) is one of Nanocs' surface reactive polyethylene glycol pegylation reagents that contain a triethoxysilane and a pyridyldisulfide group on each PEG terminus. OPSS (ortho-pyridyldithiol) silane PEG can be used to modify glass, silica and other material surfaces via the reaction between hydroxyl group and alkoxy silane group. Alkoxy groups hydrolyze readily in aqueous solution in broad pH range and reaction can be completed in 30~60 min. Meanwhile, OPSS group reacts readily with sulfhydryl groups in pH 4-8 to form a cleavable disulfide bond. PEG linker between alkoxy silane and OPSS group offers better water solubility, less steric hindrance and enhanced stability. Compared to other organic silane molecules, Nanocs' silane PEG derivatives are hydrophilic and biocompatible. All silanization and pegylation reactions can be performed in aqueous solution without adding any organic solvents.

**Product Structure:**

**Product Specifications:**

- Composition: **Silane PEG OPSS.**
- Appearance: Solid, semi-solid depends on molecular weight.
- Appearance: off-white.
- Solubility: >10 mg/mL in water, ethanol, chloroform, DMSO, etc.
- Stability: 3~6 months at -20 °C.

**Handling and Use:**

**Silane PEG OPSS** 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](http://www.nanocs.net).

**Storage Conditions:**

**OPSS PEG Silane** 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:**

Silane PEG NH <sub>2</sub>	Silane PEG NHS
Silane PEG Azide	Silane PEG FITC
Silane PEG Maleimide	Silane PEG Biotin

**To Order:**

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