

## TECHNICAL DATA SHEET

### Silane PEG Biotin, MW 400, 600, 1000, 2000, 3400, 5000, 10k, 20k

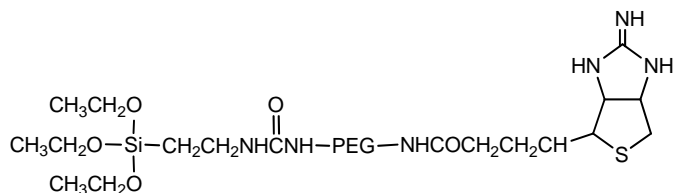
Catalog Numbers: PG2-BNSL-600, 1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Biotin PEG Silane, Triethoxyl Silane PEG Biotin

#### Description:

**Silane PEG Biotin** is one of Nanocs' surface reactive polyethylene glycol biotinylation reagents that contain a terminal triethoxysilane and a biotin group on each PEG terminus. Triethoxyl or trimethoxyl silane group reacts with hydroxyl (OH) groups easily with catalytic amount of water. Alkoxy groups hydrolyze readily in aqueous solution and reaction can be completed at room temperature in 30~60 min. Reaction between alkoxy silane and hydroxyl group enables fast and efficient conjugation of PEG Biotin to the surface of glass, silica or other materials. Resulted biotin tag can bind to avidin or streptavidin with high affinity. PEG linker between alkoxy silane and biotin offers better water solubility, less steric hindrance and enhanced stability. Compared to other organic silanes, Nanocs' silane PEG derivatives are hydrophilic and water soluble. All silanization or biotinylation reactions can be performed in aqueous solution without need any organic solvents.

#### Product Structure:



#### Product Specifications:

- Composition: **Silane PEG Biotin.**
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: 10 mg/mL, clear in water, chloroform, DMSO.
- Stability: 3 months at -20 °C.

#### Handling and Use:

**Silane PEG Biotin** 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. We suggest to use all silane PEG derivatives within 3 months after receiving. For more information about using this product, visit [www.nanocs.net](http://www.nanocs.net).

#### Storage Conditions:

**Biotin PEG Silane** should be stored at -20 °C. Desiccate. 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<sub>2</sub>  
Silane PEG Azide  
Silane PEG Maleimide

Silane PEG NHS  
Silane PEG FITC  
Silane PEG SH

#### To Order:

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