

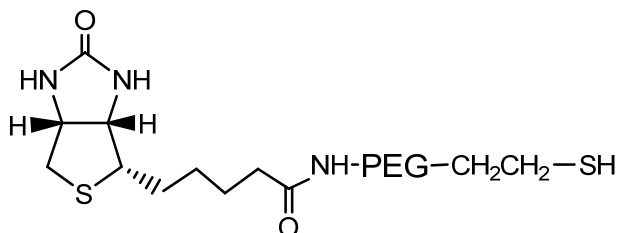
TECHNICAL DATA SHEET**Biotin PEG Thiol, MW 400, 600, 1000, 2000, 3400, 5000, 10k, 20k**

Catalog Numbers: PG2-BNTH-400, 600, 1k, 2k, 3k, 5k, 10k, 20k.

Synonym: Biotin PEG SH, Thiol PEG Biotin, Sulfhydryl PEG biotin, HS-PEG-Biotin

Description:

Biotin PEG thiol (Biotin-PEG-SH) is one of Nanocs' thiolated biotin polyethylene glycol derivatives that have a free thiol group on the one end of PEG chain and a biotin molecule on the other PEG terminus. Biotin is a bioactive small molecule that has high affinity to avidin or streptavidin. **Thiol or sulfhydryl** group reacts readily with many thiol reactive groups, such as maleimide, haloacetyl or pyridyldisulfide. It can also bind to gold and other noble metal surface with high affinity. Reactions between thiol and other groups thus allow the conjugation of biotin to proteins, antibodies, peptides, particles and other materials surfaces quickly and specifically. PEG linker between biotin and thiol groups offers better water solubility, flexible linker structure and enhanced stability.

Product Structure:**Product Specifications:**

- Composition: **Biotin PEG thiol.**
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: 10 mg/mL, clear in water, chloroform, DMSO.
- Function group: Biotin.
- Reactive group: Sulfhydryl (thiol, -SH).

Handling and Use:

Biotin PEG thiol 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:

Thiol PEG Biotin should be stored at -20 °C. Desiccate. Protect from air. Materials may be handled under inert gas for best stability. Re-test material after 12 months.

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

Related Products:

Biotin PEG NHS
Biotin PEG NH₂
Biotin PEG Azide
Biotin PEG DBCO

Biotin PEG Maleimide
Biotin PEG COOH
Biotin PEG Fluorescein
Biotin PEG Folate

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