

## TECHNICAL DATA SHEET

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

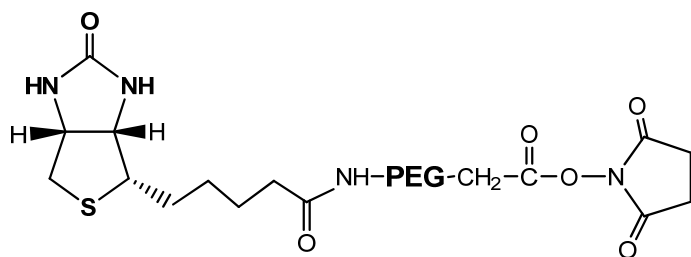
Catalog Numbers: PG2-BNNS-600, 1k, 2k, 3k, 5k, 10k, 20k.

Synonym: NHS PEG Biotin, Biotin NHS PEG, Succinimidyl PEG Biotin

#### Description:

**Biotin PEG NHS** is one of Nanocs' amine reactive biotin polyethylene glycol derivatives that have a succinimidyl NHS ester on one terminus of PEG chain and a biotin on the other PEG end. Biotin is a small bioactive molecule that has high affinity toward avidin or streptavidin. Biotin/streptavidin system has been widely used in molecule detection, bioassays and drug delivery applications. **NHS** reacts quickly with primary amine groups at alkaline pH to form a stable amide bond. Reaction between NHS and amine enables quick and efficient conjugation of biotin tag to proteins, antibodies, peptides, particles and many other materials. PEG linker between biotin and NHS group offers better water solubility, less steric hindrance and enhanced stability.

#### Product Structure:



#### Product Specifications:

- Composition: **Biotin PEG NHS.**
- Appearance: White/off-white solid, semi-solid depends on molecular weight.
- Solubility: 10 mg/mL, clear in water, chloroform, DMSO.
- Functional group: **Biotin.**
- Reactive group: **NHS.**
- Reactive toward: Primary amine ( $-NH_2$ ).

#### Handling and Use:

**Biotin PEG NHS** 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](http://www.nanocs.net).

#### Storage Conditions:

**NHS PEG Biotin** should be stored at  $-20^{\circ}C$ . 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:

Biotin PEG Maleimide  
Azide PEG Biotin  
OPSS PEG Biotin

Biotin PEG Thiol  
Biotin PEG Amine  
FITC PEG Biotin

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