

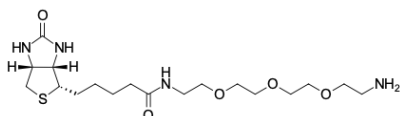
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## Biotin-PEG4-amine

<http://www.lumiprobe.com/p/biotin-peg4-amine>

Biotin-PEG4-amine is a tetraethylene glycol (PEG4) based bifunctional molecule containing biotin and a primary amino group. The reagent makes it possible to label various biomolecules (such as DNA, oligonucleotides, and proteins) with biotin by reacting the amino group with NHS esters or carboxylic acids in the presence of EDC or HATU. Biotin-labeled compounds can then be linked to avidin or streptavidin for further purification or detection.

Long PEG4-linker separates the biotin residue from the target molecule, ensuring efficient binding to avidin or streptavidin. The linker also increases the compound's water solubility, thereby facilitating bioconjugation.



**Structure of Biotin-PEG4-amine**

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### General properties

- Appearance: light beige solid
- Molecular weight: 418.56
- CAS number: 359860-27-8
- Molecular formula:  $C_{18}H_{34}N_4O_5S$
- Solubility: good in water, DMSO, DMF
- Quality control: NMR  $^1H$  and HPLC-MS (95+%)
- Storage conditions: 24 months after receipt at  $-20^{\circ}C$  in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
- Legal statement: This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.