

## **Lumiprobe Corporation**

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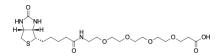
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## **Biotin-PEG4-carboxylic acid**

http://www.lumiprobe.com/p/biotin-peg4-carboxylic-acid

Biotin-PEG4-carboxylic acid is a bifunctional tetraethyleneglycol derivative bearing a carboxy group and biotin moiety. The carboxy group can be activated with peptide coupling reagents like PyBOP or carbodiimides like EDC to form a stable amide linkage with amines. Biotin-labeled biomolecules can be bound to avidin or streptavidin for further purification and detection.

The structure of this reagent features a long hydrophilic PEG4 linker that separates biotin residue from the target molecule for efficient binding with streptavidin. The linker also enhances aqueous solubility to facilitate conjugation.



## Structure of Biotin-PEG4-carboxylic acid

## **General properties**

Appearance: white to beige powder

Molecular

491.61

weight:

CAS 721431-18-1

number:

Molecular  $C_{21}H_{37}N_3O_8S$ 

3-[2-[2-[2-[2-[3-[3aS,4S,6aR)-2-oxo-1,3,3a,4,6,6a-hexahydrothieno[3,4-d]imidazol-4-yl] pentanoylamino] ethoxy] ethoxy] ethoxy] propanoic and the standard propagation of the standard propagation of

**IUPAC** name:

good in water, DMSO, DMF Solubility: Quality NMR <sup>1</sup>H and HPLC-MS (95+%)

Storage 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

conditions:

Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no Legal express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals statement:

or for commercial purposes.