### Overview

**Product name**  
Biotin-HPDP

**Description**  
Sulfhydryl-reactive, medium length reversible biotinylation reagent

**Biological description**  
Sulfhydryl-reactive, medium length (29.2 angstroms) reversible biotinylation reagent. Forms reversible disulfide links which can be cleaved using DTT or other reducing agents. Tags S-nitrosylated proteins, following reduction of SNO groups to thiols.

**Purity**  
> 90%

### Properties

**Chemical name**  
5-[(4S)-2-Oxo-1,3,3a,4,6,6a-hexahydrothieno[3,4-d]imidazol-4-yl]-N-{6-[3-(pyridin-2-yl)disulfanyl]propanoylamino}hexylpentanamide

**Molecular weight**  
539.78

**Chemical structure**

![Chemical structure of Biotin-HPDP](image)

**Molecular formula**  
C_{24}H_{37}N_{5}O_{3}S_{3}

**CAS Number**  
129179-83-5

**PubChem identifier**  
46783562

**Storage instructions**  
Store at +4°C. The product can be stored for up to 12 months.

**Solubility overview**  
Soluble in DMSO to 25 mM

**Handling**

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

**SMILES**  
C1C2C([C@H](S1)CCCCC(=O)NCCCCNC(=O)CCSSC3=CC=CC=N3)NC(=O)N2

**Source**  
Synthetic
Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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