

Product Name: Biotin-PEG3-Azide

Catalog No.: 7524

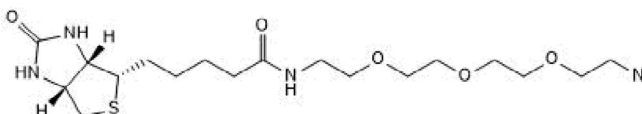
Batch No.: 2

CAS Number: 875770-34-6

IUPAC Name: (3a*S*,4*S*,6a*R*)-*N*-[2-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]ethyl]hexahydro-2-oxo-1*H*-thieno[3,4-*d*]imidazole-4-pentanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₈ H ₃₂ N ₆ O ₅ S
Batch Molecular Weight:	444.55
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM water to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 97.0% purity
¹ H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

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Description:

Biotin-PEG3-Azide is a biotinylation reagent for labeling alkyne-containing biomolecules either via Cu(I)-catalyzed Azide-Alkyne Click Chemistry reaction (CuAAC) or via Cu(I)-free Strain-Promoted Alkyne-Azide Click Chemistry (SPAAC) reaction with cyclooctyne derivatives.

Physical and Chemical Properties:

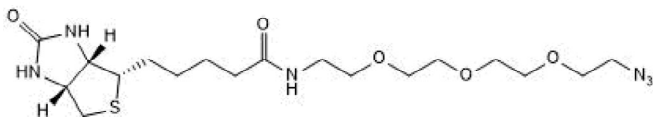
Batch Molecular Formula: C₁₈H₃₂N₆O₅S

Batch Molecular Weight: 444.55

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Zhang *et al* (2021) Use of NAD tagSeq II to identify growth phase-dependent alterations in *E. coli* RNA NAD⁺ capping. *Proc.Natl.Acad.Sci.U.S.A.* **118** e2026183118. PMID: 33782135.

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