

Product Name: DADPS Biotin Azide

Catalog No.: 7966

Batch No.: 1

CAS Number: 1260247-50-4

IUPAC Name: *N*-[2-[[[(6-Azidohexyl)oxy]diphenylsilyl]oxy]-2-methylpropyl]-21-[(3a*S*,4*S*,6a*R*)-hexahydro-2-oxo-1*H*-thieno[3,4-*d*]imidazol-4-yl]-17-oxo-4,7,10,13-tetraoxa-16-azaheneicosanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₃H₆₇N₇O₉SSi.¼H₂O

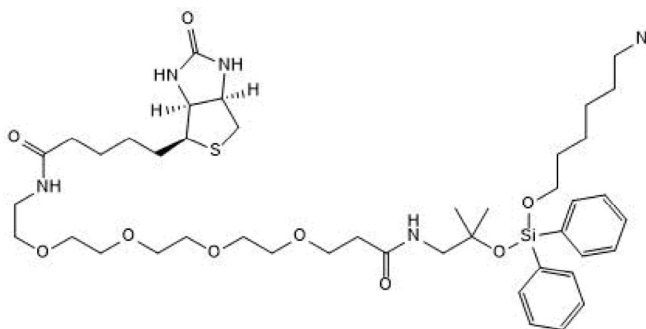
Batch Molecular Weight: 890.69

Physical Appearance: Colourless/white gum

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.98	7.64	11.01
Found	57.66	7.52	10.54

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

DADPS Biotin Azide is an acid cleavable biotin capture reagent, with an azide group as a click handle for conjugation. The biotin portion strongly binds to avidin or streptavidin and allows to isolate specific, tagged proteins or cells from a complex biological mixture. The DADPS component is a cleavable linker, which can be cleaved under very mild acidic treatment (such as 10% formic acid), unlike traditional biotin probes that require harsh conditions (which can damage samples) to break the streptavidin bond.

Physical and Chemical Properties:

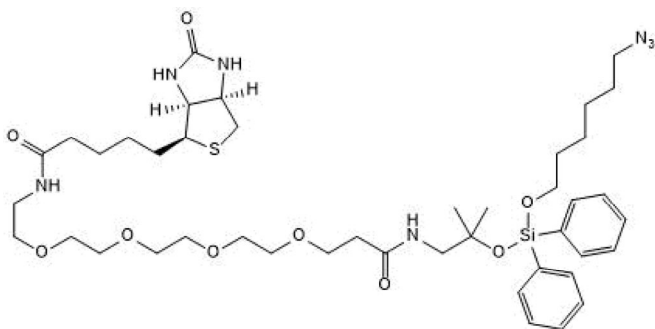
Batch Molecular Formula: C₄₃H₆₇N₇O₉SSi.½H₂O

Batch Molecular Weight: 890.69

Physical Appearance: Colourless/white gum

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Lai *et al* (2022) Quantitative site-specific chemoproteomic profiling of protein lipoylation. *JACS* **144** 10320. PMID: 35648456.

Li *et al* (2022) Benchmarking cleavable biotin tags for peptide-centric chemoproteomics. *J. Proteome Res.* **21** 1349. PMID: 35467356.

Ruan *et al* (2022) Proteome-wide deconvolution of drug targets and binding sites by lysine reactivity profiling. *Anal. Chem.* **94** 3352. PMID: 35147412.

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