

Product Name: Biotin-LC-NAD⁺

Catalog No.: 6572

Batch No.: 2

IUPAC Name: β-Nicotinamide-N6-(2-(6-(6-[biotinyl]amino)hexanoyl)amino)hexanoyl)aminoethyl)adenine dinucleotide sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₅H₆₇N₁₂NaO₁₈P₂S

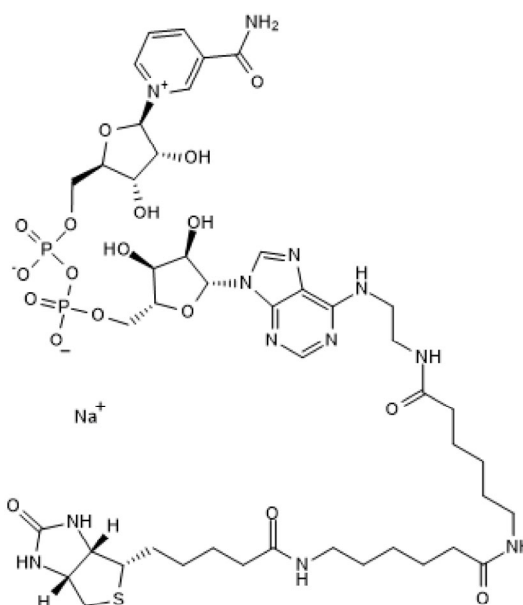
Batch Molecular Weight: 1181.09

Physical Appearance: White solid

Solubility: water to 10 mM

Storage: Store at -80°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

Mass Spectrum: Consistent with structure

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

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IUPAC Name: β-Nicotinamide-N6-(2-(6-(6-[biotinyl]amino)hexanoyl)amino)hexanoyl)aminoethyl)adenine dinucleotide sodium salt

Description:

Biotin-LC-NAD⁺ is a biotinylated analog of β-NAD⁺. Commonly used reagent in LSD1 and PARP1 assays.

Physical and Chemical Properties:

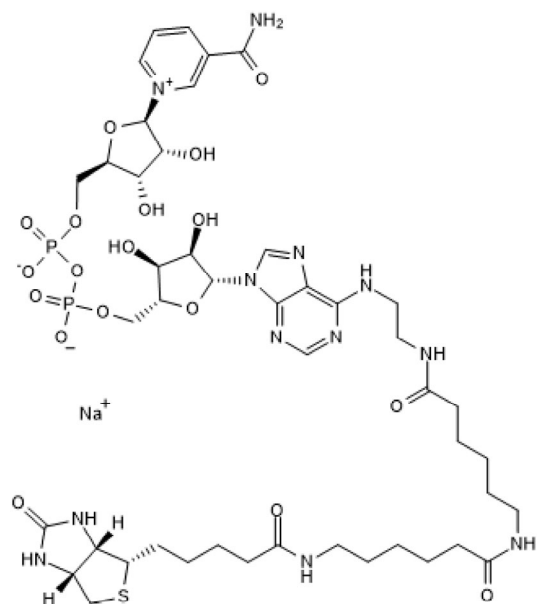
Batch Molecular Formula: C₄₅H₆₇N₁₂NaO₁₈P₂S

Batch Molecular Weight: 1181.09

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -80°C

Solubility & Usage Info:

water to 10 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Dancy et al (2012) Azalysine analogues as probes for protein lysine deacetylation and demethylation. *J.Am.Chem.Soc.* **134** 5138. PMID: 22352831.

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