

1. Identification

Catalogue Number

N407784

Lot Number

712093227-2-1

Product Name

b-Nicotinamide Adenine Dinucleotide

Synonyms

Adenosine 5'-(Trihydrogen Diphosphate), P'25'-Ester with 3-(Aminocarbonyl)-1-?-D-ribofuranosylpyridinium Hydroxide, Inner Salt; Pyridinium, 3-Carbamoyl-1-?-D-ribofuranosyl-, Hydroxide, 5'25'-Ester with Adenosine 5'-(Trihydrogen Pyrophosphate), Inner Salt (8Cl); Adenine-nicotinamide Dinucleotide; CO-I; Codehydrase I; Codehydrogenase I; Coenzyme I; Cozymase I; DPN;

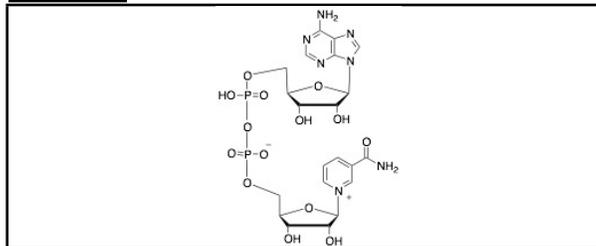
CAS Number

53-84-9

Solubility

Methanol (Slightly), Water (Slightly)

Structure



Molecular Formula

C₂₁H₂₇N₇O₁₄P₂

Source of Product

N/A

Long Term Storage Conditions

-20°C, Inert atmosphere

Molecular Weight

663.43

Purity

>95%

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

2. Warnings

Not Determined

3. Analytical Information

Tests

Appearance

Specifications

White to Pale Yellow Solid

Results

White to Off-White Solid

NMR

Conforms to Structure

Conforms

P NMR

Conforms to Structure

Conforms

Elemental Analysis

Conforms

%C: 34.55, %H: 4.51, %N: 13.31

HPLC Purity

>95%

99.71% (205 nm)

MS

Conforms to Structure

Conforms

Specific Rotation

Report Result

-21.6° (c = 0.1, Water)

Additional Information

N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed by

R. Reddy

Reviewed by

Toni Rantanen

C of A Approved by

Christina Gouliaras

Test Date

10/15/2024

Retest Date

10/13/2028

Swathi Reddy

Toni Rantanen

Christina Gouliaras

Product Quality Specialist

Manager, Quality Assurance

Quality Assurance Associate