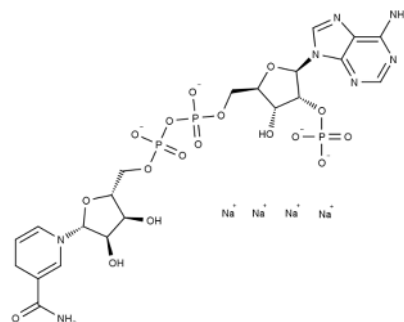




NADPH, tetrasodium salt

Catalog No: 16156
Lot No: XXXXX
Cas No: 2646-71-1
Formula: $C_{21}H_{26}N_7O_{17}P_3 \cdot 4Na$
MW: 833.4
Supplied as: solid
Stability: store at -20°C



Background

Nicotinamide adenine dinucleotide phosphate, abbreviated NADP+ or, in older notation, TPN (triphosphopyridine nucleotide), is a coenzyme used in anabolic reactions, such as lipid and nucleic acid synthesis, which require NADPH as a reducing agent. NADPH is the reduced form of NADP+. NADP+ differs from NAD+ in the presence of an additional phosphate group on the 2' position of the ribose ring that carries the adenine moiety.

Tests

Appearance:

Appearance of solution:

(50 mg/ml in H₂O)

Water content (K.F.):

Assay of NADPH (enzym.):

(abs. at 340 nm, $\epsilon = 6.300$)

Assay (spectrophotom.):

(abs. at 260 nm, $\epsilon = 15.000$)

A_{260}/A_{340}

Purity NADPH (from HPLC):

NADH (HPLC):

NADP (enzym.):

Na content (flame photometry):

Ethanol:

Specifications

white to slightly yellowish amorphous

powder

clear, colourless to slightly yellowish

≤6.0%

≥79.0%

≥80.0%

2.32 – 2.65

≥95.0 area %

≤0.5 area %

≤0.5 area %

10 – 12 %

≤3.0%

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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