

β-Nicotinamide adenine dinucleotide phosphate

Cat. No. NATE-1077

Lot. No. (See product label)

Introduction

Description

β-Nicotinamide adenine dinucleotide 2'-phosphate (NADP+) and β-Nicotinamide adenine dinucleotide 2'-phosphate, reduced (NADPH) comprise a coenzyme redox pair (NADP+:NADPH) involved in a wide range of enzyme catalyzed oxidation reduction reactions. The NADP+/NADPH redox pair facilitates electron transfer in anabolic reactions such as lipid and cholesterol biosynthesis and fatty acyl chain elongation. The NADP+/NADPH redox pair is used in a variety of antioxidation mechanism where it protects against reactive oxidation species accumulation. NADPH is generated in vivo by the pentose phosphate pathway (PPP).

Applications

A common form of NADP

Synonyms

β-NADP; Coenzyme II; TPN; Codehydrogenase II; NADP; Triphosphopyridine nucleotide; Nicotinamide adenine dinucleotide phosphate hydrate

Product Information

Appearance

Powder

EC Number

200-178-1

CAS No.

53-59-8

Molecular Weight

743.41

Purity

> 95%

Usage and Packaging

Preparation Instructions

Soluble in water (50 mg/ml), methanol, and ethanol. Insoluble in ether, and ethyl acetate.

Storage and Shipping Information

Storage

Store at -20°C