

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

Instructions

Storage and Shipping Information

Storage Store at -20°C