Creative Enzymes®

β-Nicotinamide adenine dinucleotide phosphate, reduced tetra(cyclohexylammonium) salt

Cat. No. COEC-079

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) that work together in a wide range of enzyme catalyzed oxidation reduction reactions. One of the pairs actions is that it facilitates electron transfer in anabolic reactions such as lipid and cholesterol biosynthesis and fatty acyl chain elongation. The NADP+/NADPH redox pair is also used in a variety of antioxidation mechanisms where it protects against reactive oxidation species accumulation. NADPH is generated in vivio by the pentose phosphate pathway (PPP).

Applications An electron donor and a cofactor for nitric oxide synthetase

Synonyms β-NADPH; NADPH; TPNH

Product Information

Appearance Powder

Form Solid

CAS No. 100929-71-3

Molecular Formula C21H30N7O17P3•4C6H13N

Molecular Weight 1142.12

Purity ≥95%

Refractive Index 1.64 (Predicted)

Density 1.64 g/cm3