Creative Enzymes®

β-Nicotinamide-Adenine Dinucleotide Phosphate, Oxidized Form (β-NADP-K)

Cat. No. NATE-0788

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 agains reactive oxidation species accumulation. NADPH is generated in vivio by the pentose phosphate pathway (PPP).
Synonyms	β-Nicotinamide-Adenine Dinucleotide Phosphate, Oxidized Form (β-NADP-K); β-Nicotinamide-Adenine Dinucleotide Phosphate; β-NADP-K

Product Information

CAS No.	698999-85-8
Molecular Weight	781.5
Purity	Determined by increase in absorbance at 340nm on enzymatic reduction with G6PDH* at pH 10 (More than 95%) *G6PDH = Glucose-6-phosphate dehydrogenase (yeast) (EC 1.1.1.49.)
Structure	C21H27N7O17P3.K
Specificity	Water content: < 8% by Karl Fischer

Storage and Shipping Information

Storage	Keep tightly stoppered in the dark below 5°C. Moisture will reduce the purity. For prolonged storage, keep below-20°C.