Creative Enzymes®

β-Nicotinamide-Adenine Dinucleotide Phosphate, Reduced

Cat. No. NATE-0787

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.
Synonyms	β-Nicotinamide-Adenine Dinucleotide Phosphate, Reduced; 2646-71-16; β-NADPH

Product Information

CAS No.	2646-71-16
Molecular Weight	833.35
Purity	Determined by decrease in absorbance at 340 nm on enzymatic reduction with GR*at pH 10.0 (> 95%) *GR = Glutathion reductase (yeast) (EC 1.6.4.2.)
Structure	C21H26N7O17P3Na4
Specificity	Water content: < 8% by Karl Fischer; Sodium content: 10.0 ± 2.0% by flame photometyl

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. Unstable in acids, but relatively stable at pH 10-11.