Creative Enzymes®

# β-Nicotinamide-Adenine Dinucleotide Phosphate, Reduced

*Cat. No. NATE-0787*

*Lot. No.* (See product label)

## Introduction

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| ***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

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| ***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

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| ***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. |