Creative Enzymes®

Native Crotalus adamanteus venom Pyrophosphatase, Nucleotide

Cat. No. NATE-0493

Lot. No. (See product label)

Introduction

Description In enzymology, a nucleotide diphosphatase (EC 3.6.1.9) is an enzyme that catalyzes the chemical reaction:a dinucleotide + H2O↔ 2 mononucleotides. Thus, the two substrates of this enzyme are dinucleotide and H2O, whereas its product is mononucleotide. This enzyme belongs to the family of hydrolases, specifically those acting on acid anhydrides in phosphorus-containing anhydrides. This enzyme participates in 5 metabolic pathways:purine metabolism, starch and sucrose metabolism, riboflavin metabolism, nicotinate and nicotinamide metabolism, and pantothenate and coa biosynthesis.

Synonyms nucleotide diphosphatase; EC 3.6.1.9; nucleotide pyrophosphatase; nucleotide-sugar pyrophosphatase; 9032-64-8

Product Information

Source Crotalus adamanteus venom

Form Lyophilized powder containing approx. 35% Tris buffer salts.

EC Number EC 3.6.1.9

CAS No. 9032-64-8

Activity 4-8 units/mg protein, vial of ~25 units

Unit Definition One unit will hydrolyze 1.0 µmole of β-NAD to NMN and AMP per min at pH 7.4 at 37°C in the presence of Mg ions.

Usage and Packaging

Package vial of ~25 units

Storage and Shipping Information

Storage −20°C