

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