Creative Enzymes®

Native Porcine NADase

Cat. No. NATE-0472

Lot. No. (See product label)

Introduction

Description	In enzymology, a NAD+ nucleosidase (EC 3.2.2.5) is an enzyme that catalyzes the chemical reaction:NAD+ + H2O↔ ADP-ribose + nicotinamide. Thus, the two substrates of this enzyme are NAD+ and H2O, whereas its two products are ADP-ribose and nicotinamide. This enzyme belongs to the family of hydrolases, specifically those glycosylases that hydrolyse N-glycosyl compounds. This enzyme participates in nicotinate and nicotinamide metabolism and calcium signaling pathway.
Applications	NADase from porcine brain has been used in a study to investigate histidine and related compounds resulting from catalyzed ADP-riboslyation. It has also been used in a study to investigate the preparation of arylazide-substituted pyridine adenine dinucleotides for photoaffinity labeling.
Synonyms	NAD glycohydrolase; nicotinamide adenine dinucleotide glycohydrolase; β-NAD+ glycohydrolase; DPNase (ambiguous); NAD hydrolase (ambiguous); diphosphopyridine nucleosidase (ambiguous); nicotinamide adenine dinucleotide nucleosidase (ambiguous); NAD nucleosidase (ambiguous); DPN hydrolase (ambiguous); NADase (ambiguous); nga (gene name); EC 3.2.2.5; 9032-65-9

Product Information

Species	Porcine
Source	Porcine brain
Form	Acetone-dried powder
EC Number	EC 3.2.2.5
CAS No.	9032-65-9
Activity	> 0.007 unit/mg solid
Buffer	insoluble
Unit Definition	One unit will hydrolyze 1.0 μmole of β-NAD to nicotinamide and ADP-ribose per min at pH 7.3 at 37°C.

Storage and Shipping Information

Storage	−20°C