

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-ribosylation. 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