

Native Porcine NADase

Cat. No. NATE-0472 Lot. No. (See product label)

| 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. |
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| 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. |
| 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 |
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Product Information

| Species | Porcine |
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| 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 $\mu mole$ of $\beta -NAD$ to nicotinamide and ADP-ribose per min at pH 7.3 at 37°C. |

Storage and Shipping Information

| Storage | -20°C |
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