

Recombinant Mouse Nmnat2 Protein, Myc/DDK-tagged

Cat. No. Nmnat2-4444M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length nicotinamide nucleotide adenylyltransferase 2 (Nmnat2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Nicotinamide/nicotinate-nucleotide adenylyltransferase that acts as an axon maintenance factor. Catalyzes the formation of NAD ⁺ from nicotinamide mononucleotide (NMN) and ATP. Can also use the deamidated form; nicotinic acid mononucleotide (NaMN) as substrate but with a lower efficiency. Cannot use triazofurin monophosphate (TrMP) as substrate. Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage of NAD ⁺ . For the pyrophosphorolytic activity prefers NAD ⁺ , NADH and NaAD as substrates and degrades nicotinic acid adenine dinucleotide phosphate (NADP) less effectively. Fails to cleave phosphorylated dinucleotides NADP ⁺ , NADPH and NaADP ⁺ . Axon survival factor required for the maintenance of healthy axons: acts by delaying Wallerian axon degeneration, an evolutionarily conserved process that drives the loss of damaged axons.
Molecular Mass	35 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Nmnat2 nicotinamide nucleotide adenylyltransferase 2 [Mus musculus (house mouse)]

Official Symbol Nmnat2

Synonyms NMNAT2; nicotinamide nucleotide adenylyltransferase 2; nicotinamide mononucleotide adenylyltransferase 2; NMN adenylyltransferase 2; naMN adenylyltransferase 1; pyridine nucleotide adenylyltransferase 2; nicotinate-nucleotide adenylyltransferase 1; PNAT1; PNAT2; AI843915; D030041I09Rik; MGC113818

Gene ID 226518

mRNA Refseq NM_175460

Protein Refseq NP_780669

UniProt ID Q8BNJ3

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