

Active Recombinant Human NMNAT1, His-tagged

Cat. No. NMNAT1-25H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NMNAT1 (Met1-Thr279) fused with 6His tag at Cterminal, was expressed in Sf 21 (baculovirus).
Species	Human
Source	Sf21 Cells
ProteinLength	1-279 a.a.
Description	This gene encodes an enzyme which catalyzes a key step in the biosynthesis of the coenzyme NAD. The encoded protein is one of several nicotinamide nucleotide adenyltransferases. Studies in Drosophila and mammalian neurons have shown the encoded protein can confer protection to damaged neurons. This protection requires enzymatic activity which increases NAD levels and activates a nuclear deacetylase which is the protective molecule. Pseudogenes of this gene are located on chromosomes 1, 3, 4, 14 and 15.
Predicted N Terminal	Ser4
Form	Supplied as a 0.2 µ filtered solution in Tris, NaCl, Glycerol and DTT.
Bio-activity	Measured by the production of NAD ⁺ , which is converted to NADH by alcohol dehydrogenase. The specific activity is >2,500 pmol/min/g.
Molecular Mass	32 kDa

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Endotoxin	< 1.0 EU per 1 µg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 °C as supplied. 3 months, -70 °C under sterile conditions after opening.

GENE INFORMATION

Gene Name	NMNAT1 nicotinamide nucleotide adenyltransferase 1 [Homo sapiens (human)]
Official Symbol	NMNAT1
Synonyms	NMNAT1; LCA9; NMNAT; PNAT1; nicotinamide nucleotide adenyltransferase 1; NMN adenyltransferase 1; NaMN adenyltransferase 1; pyridine nucleotide adenyltransferase 1; nicotinate-nucleotide adenyltransferase 1; EC 2.7.7.1; EC 2.7.7.18
Gene ID	64802
mRNA Refseq	NM_022787
Protein Refseq	NP_073624
MIM	608700
UniProt ID	Q9HAN9
Chromosome Location	1p36.22

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Pathway	Metabolism; Metabolism of vitamins and cofactors; Metabolism of water-soluble vitamins and cofactors
Function	ATP binding; nicotinamide-nucleotide adenylyltransferase activity; nicotinamide-nucleotide adenylyltransferase activity

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