

Active Recombinant Full Length Human NMNAT1 Protein, His tagged

Cat. No. NMNAT1-29821TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NMNAT1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-279aa
Description	This gene encodes an enzyme which catalyzes a key step in the biosynthesis of nicotinamide adenine dinucleotide (NAD). The encoded enzyme is one of several nicotinamide nucleotide adenylyltransferases, and is specifically localized to the cell nucleus. Activity of this protein leads to the activation of a nuclear deacetylase that functions in the protection of damaged neurons. Mutations in this gene have been associated with Leber congenital amaurosis 9. Alternative splicing results in multiple transcript variants. Pseudogenes of this gene are located on chromosomes 1, 3, 4, 14, and 15.
Form	Liquid in 20mM Tris-HCl buffer (pH 8.0) containing 20 % glycerol, 0.1M NaCl, 1mM DTT 1mM EDTA
Bio-activity	Specific activity is > 7,000 pmol/min/μg, and was obtained by measuring the beta-NAD from nicotinamide mononucleotide and ATP per minute at pH 8.0 at 37 centigrade.

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AASequence	MENSEKTEVVLLACGSFNPITNMHLRLFELAKDYMNGTGRYTVVKGIISPVGDAYKK KGLIPAYHRVIMAEATKNSKWVEVDTWESLQKEWKETLKVLRHHQEKLEASDCDH QQNSPTLERPGRKRKWTETQDSSQKKSLEPKTKAVPKVKLLCGADLLESFAVPNLW KSEDITQIVANYGLICVTRAGNDAQKFIYESDVLWKHRSNIHVVNEWIANDISSTKIRR ALRRGQSIRYLVPDLVQEYIEKHNLYSSESEDRNAGVILAPLQRNTAEAK
Purity	> 95 % by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by Bradford assay)

GENE INFORMATION

Gene Name	NMNAT1 nicotinamide nucleotide adenyltransferase 1 [Homo sapiens (human)]
Official Symbol	NMNAT1
Synonyms	NMNAT1; nicotinamide nucleotide adenyltransferase 1; nicotinamide nucleotide adenyltransferase; nicotinamide mononucleotide adenyltransferase 1; NMNAT; PNAT1; NMN adenyltransferase 1; NaMN adenyltransferase 1; pyridine nucleotide adenyltransferase 1; nicotinate-nucleotide adenyltransferase 1
Gene ID	64802

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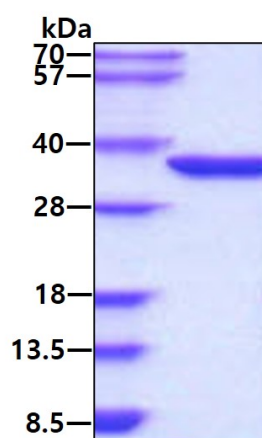
mRNA Refseq [NM_022787](#)

Protein Refseq [NP_073624](#)

MIM [608700](#)

UniProt ID [Q9HAN9](#)

SDS-PAGE



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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