

Recombinant Full Length Human NMNAT1 Protein, C-Flag-tagged

Cat. No. NMNAT1-2171HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NMNAT1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	31.8 kDa
AA Sequence	MENSEKTEVVLLACGSFNPITNMHLRLFELAKDYMNGTGRTTVVKGIISPVGDAYKK KGLIPAYHRVIMA ELATKNSKWVEVDTWESLQKEWKETLKVLRHHQEKLEASDCDH QQNSPTLERPGRKRKWTETQDSSQKKS LEPKTKAVPKVKLLCGADLLESFAVPNL WKSEDTQIVANYGLICVTRAGNDAQKFIYESDVLWKHRSNI HVVNEWIANDISSTKI

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	RRALRRGQSIRYLVDPDLVQEYIEKHNLYSSEEDRNAGVILAPLQRNTAEAKT TRTR PLEQKLISEEDLAANDILDYKDDDDKV
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 handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Metabolic pathways, Nicotinate and nicotinamide metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	NMNAT1 nicotinamide nucleotide adenylyltransferase 1 [Homo sapiens (human)]
Official Symbol	NMNAT1
Synonyms	LCA9; NMNAT; PNAT1; SHILCA
Gene ID	64802
mRNA Refseq	NM_022787.4

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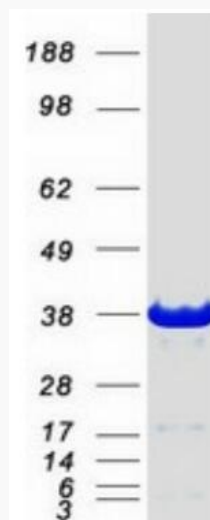
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Protein Refseq NP_073624.2

MIM 608700

UniProt ID Q9HAN9



Coomassie blue staining of purified NMNAT1 protein.

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