

Recombinant Human NMNAT1, His-tagged

Cat. No. NMNAT1-2766H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NMNAT1 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 36.0 kDa (315aa).
Species	Human
Source	E.coli
Description	NMNAT1, also known as NMNAT or PNAT1, is a central enzyme in NAD biosynthesis, catalyzing the condensation of nicotinamide mononucleotide (NMN) or nicotinic acid mononucleotide (NaMN) with the AMP moiety of ATP to form NAD or NaAD. It is widely expressed with high levels in skeletal muscle, heart, liver and kidney. This protein appears to have the ability to protect against axonal degeneration following mechanical or toxic insults.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl, 1mM DTT, 1mM EDTA.
Purity	> 95% by SDS - PAGE.
Concentration	1.0 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMENS EKTEVLLAC GS FNPITNMH LRLFELAKDY MNGTGRYTVV KGIISPVGDAYKKKGLIPAY HR VIM AEL AT KNSKWVEVDT WESLQKEWKE TLKVLRRHQE KLEASDCDHQ QN SPT

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LERPG RKRKWTETQD SSQKKSLEPK TKAVPKVKLL CGADLLESFA
 VPNLWKSEDI TQIVANYGLI CVTRAGNDAQ KFIYESDVLW KHRSNIHVVN
 EWIANDISST KIRRALRRGQSIRYLVPLDV QEYIEKHNLV SSESEDRNAG
 VILAPLQRNT AEAKT.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Metabolic pathways; Nicotinate and nicotinamide metabolism; Metabolism of vitamins and cofactors

GENE INFORMATION

Gene Name

[NMNAT1 nicotinamide nucleotide adenylyltransferase 1 \[Homo sapiens \]](#)

Synonyms

nicotinamide nucleotide adenylyltransferase 1; NMNAT; PNAT1; NMNAT1;
 nicotinamide mononucleotide adenylyltransferase 1; OTTHUMP00000001732; NMN
 adenylyltransferase 1; NaMN adenylyltransferase 1; pyridine nucleotide
 adenylyltransferase 1; nicotinate-nucleotide adenylyltransferase 1; Nicotinate-
 nucleotide adenylyltransferase 1; nicotinamide nucleotide adenylyltransferase; 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](#)

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Chromosome
Location 1p36.22

Function ATP binding; nicotinamide-nucleotide adenylyltransferase activity; nicotinate-nucleotide adenylyltransferase activity; nucleotide binding; nucleotidyltransferase activity; protein binding; transferase activity

PDB rendering based
on 1gzu.

