

Recombinant Human nicotinamide nucleotide adenylyltransferase 2, His-tagged

Cat. No. NMNAT2-300H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NMNAT2, 1-307 aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-307 a.a.
Description	NMNAT2 belongs to the nicotinamide mononucleotide adenylyltransferase (NMNAT) enzyme family, members of which catalyze an essential step in NAD (NADP) biosynthetic pathway. Unlike the other human family member, which is localized to the nucleus, and is ubiquitously expressed; this enzyme is cytoplasmic, and is predominantly expressed in the brain. Two transcript variants encoding different isoforms have been found for this gene. Recombinant human NMNAT2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	36.6 kDa (327aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MTETTKTHVI LLACGSFNPI TKGHIQMFER ARDYLHKTGR FIVIGGIVSP VHDSYGKQGL VSSRHRLIMC QLAVQNSDWI

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RVDPWECYQD TWQTTCSVLE HHRDLMKRVT GCILSNVNTN SMTPVIGQPQ
 NETPQPIYQN SNVATKPTAA KILGKVGESL SRICCVRPPV ERFTFVDENA
 NLGTVMYEE IELRILLCLG SDLLESFCIP GLWNEADMEV IVGDFGIVVV
 PRDAADTDRI MNHSSILRKY KNNIMVVKDD INHPMSVSS TKSRLALQHG
 DGHVVDYLSQ PVIDYILKSQ LYINASG

Purity >85% by SDS - PAGE

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

Concentration 0.25mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name NMNAT2 nicotinamide nucleotide adenylyltransferase 2 [Homo sapiens]

Official Symbol NMNAT2

Synonyms NMNAT2; nicotinamide nucleotide adenylyltransferase 2; C1orf15, chromosome 1 open reading frame 15; nicotinamide mononucleotide adenylyltransferase 2; KIAA0479; PNAT2; NMN adenylyltransferase 2; NaMN adenylyltransferase 2; pyridine nucleotide adenylyltransferase 2; nicotinate-nucleotide adenylyltransferase 2; C1orf15; MGC2756;

Gene ID 23057

mRNA Refseq NM_015039

Protein Refseq NP_055854

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MIM	608701
UniProt ID	Q9BZQ4
Chromosome Location	1q25
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; NAD biosynthesis II (from tryptophan), organism-specific biosystem; NAD biosynthesis III, organism-specific biosystem; NAD biosynthesis from 2-amino-3-carboxymuconate semialdehyde, organism-specific biosystem;
Function	ATP binding; nicotinamide-nucleotide adenylyltransferase activity; nicotinate-nucleotide adenylyltransferase activity; nucleotide binding; nucleotidyltransferase activity; transferase activity;