Recombinant Human NMNAT2, His-tagged

Cat. No. NMNAT2-28747TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human NMNAT2 with an N terminal His tag; MWt 35 kDa .
Species	Human
Source	E.coli
ProteinLength	306 amino acids
Description	This gene product 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.
Conjugation	HIS
Molecular Weight	35.000kDa inclusive of tags
Tissue specificity	Highly expressed in brain, in particular in cerebrum, cerebellum, occipital lobe, frontal lobe, temporal lobe and putamen. Also found in the heart, skeletal muscle, pancreas and islets of Langerhans.
Biological activity	Converts NMN to NAD+.

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Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 55mM Tris HCl, 150mM Sodium chloride, pH 8.2
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the eukaryotic NMN adenylyltransferase family.

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;
Gene ID	23057
mRNA Refseq	NM_015039
Protein Refseq	NP_055854
MIM	608701
Uniprot ID	Q9BZQ4
Chromosome	1q25

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Location	
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; Nicotinate and nicotinamide metabolism, organism-specific biosystem;
Function	ATP binding; nicotinamide-nucleotide adenylyltransferase activity; nicotinate-nucleotide adenylyltransferase activity; nucleotide binding; nucleotidyltransferase activity;

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