

Recombinant Human NMNAT3 cell lysate

Cat. No. NMNAT3-1201HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	The coenzyme NAD and its derivatives are involved in hundreds of metabolic redox reactions and are utilized in protein ADP-ribosylation, histone deacetylation, and in some Ca(2+) signaling pathways. NMNAT (EC 2.7.7.1) 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 (Zhang et al., 2003 [PubMed 12574164]).
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	NMNAT3 nicotinamide nucleotide adenyltransferase 3 [Homo sapiens]
Official Symbol	NMNAT3
Synonyms	NMNAT3; nicotinamide nucleotide adenyltransferase 3; nicotinamide mononucleotide adenyltransferase 3; PNAT3; NMN adenyltransferase 3; NaMN

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	adenylyltransferase 3; pyridine nucleotide adenylyltransferase 3; nicotinate-nucleotide adenylyltransferase 3; FKSG76; PNAT-3;
Gene ID	349565
mRNA Refseq	NM_001200047
Protein Refseq	NP_001186976
MIM	608702
UniProt ID	Q96T66
Chromosome Location	3q23
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; nicotinamide-nucleotide adenylyltransferase activity; nicotinate-nucleotide adenylyltransferase activity; nucleotide binding; nucleotidyltransferase activity; transferase activity;