

Recombinant Human NMNAT3, His-tagged

Cat. No. NMNAT3-639H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NMNAT3 is produced in <i>E.coli</i> and fused at the N-terminus to a His-tag. MW=30.3kDa.
Species	Human
Source	E.coli
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.
Purity	≥95% (SDS-PAGE).
Formulation	Liquid. In 50mM sodium phosphate, pH 8.0, containing 300mM sodium chloride, 1mM DTT and 10% glycerol.
Application	Well suited for the synthesis of NAD analogs due to lower substrate selectivity compared to NMNAT1.
Storage And Stability	-20°C. Stable for at least 3 months after receipt when stored at -20°C. Avoid freeze/thaw cycles.

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GENE INFORMATION

Gene Name	NMNAT3 nicotinamide nucleotide adenylyltransferase 3 [Homo sapiens]
Synonyms	NMNAT3; nicotinamide nucleotide adenylyltransferase 3; PNAT3; EC 2.7.7.1; EC 2.7.7.18
Gene ID	349565
mRNA Refseq	NM_178177
Protein Refseq	NP_835471
MIM	608702
UniProt ID	Q96T66
Chromosome Location	3q23
Pathway	Metabolic pathways; Nicotinate and nicotinamide metabolism; Metabolism of vitamins and cofactors
Function	ATP binding; nicotinamide-nucleotide adenylyltransferase activity; nicotinate-nucleotide adenylyltransferase activity; nucleotide binding; nucleotidyltransferase activity; protein binding; transferase activity

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