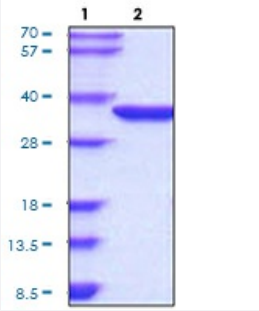
Bioactive Full-Length

NMNAT1 (Human) Recombinant Protein

Catalog # P7951 Size 100 ug

Applications



Specification

Product Description	Human NMNAT1 (Q9HAN9, 1 a.a. - 279 a.a.) full length recombinant protein with His tag expressed in *Escherichia coli*.
Sequence	MENSEKTEVVLLACGSFNPITNMHLRLFELAKDYMNGTGRYTVVKGIISPVGDAYKKKGLIPAYHRV IMAELATKNSKWVEVDTWESLQKEWKETLKVLRHHQEKLEASDCDHQQNSPTLERPGRKRKWT ETQDSSQKKSLEPKTKAVPKVKLLCGADLLESFAVPNLWKSEDITQIVANYGLICVTRAGNDAQK FIYESDVLWKHRSNIHVVNEWIANDISSTKIRRALRRGQSIRYLVPDLVQEYIEKHNLYSSESEDRNA GVILAPLQRNTAEAKT
Host	Escherichia coli
Theoretical MW (kDa)	36
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by SDS-PAGE
Activity	Specific activity is > 7000 pmol/min/ug, and was obtained by measuring the beta-NAD from nicotinamide mononucleotide and ATP per minute at pH 8.0 at 37°C.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.

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Storage Buffer	In 20mM Tris-HCl pH 8.0 (20% glycerol, 0.1 M NaCl, 1 mM DTT, 1 mM EDTA)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — NMNAT1

Entrez GeneID	64802
Protein Accession#	Q9HAN9
Gene Name	NMNAT1
Gene Alias	NMNAT, PNAT-1, PNAT1
Gene Description	nicotinamide nucleotide adenylyltransferase 1
Omim ID	608700
Gene Ontology	Hyperlink
Gene Summary	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 path ways. 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 m oiety of ATP to form NAD or NaAD (Zhang et al., 2003 [PubMed 12574164]).[supplied by OMIM
Other Designations	NMN adenylyltransferase|OTTHUMP00000001731|pyridine nucleotide adenylyltransferase 1

Pathway

- Metabolic pathways
- Nicotinate and nicotinamide metabolism

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Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Tobacco Use Disorder

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