

NMNAT1 active protein

NMNAT1, 115-270aa, Human, His tag, E Coli (Bioactivity Validated)

CATALOG # AAA11834	HOST E Coli	APPLICATIONS SDS-Page, ELISA
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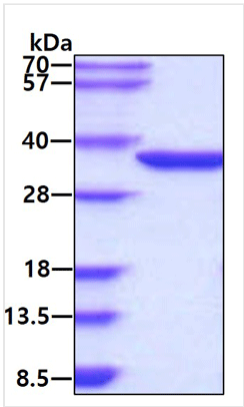
PRODUCT SYNONYMS

NMNAT1; 115-270aa; Human; His tag; E Coli (Bioactivity Validated); Nicotinamide nucleotide adenyltransferase 1; Nicotinamide/nicotinic acid mononucleotide adenyltransferase 1; NMN/NaMN adenyltransferase 1; Nicotinamide nucleotide adenyltransferase; Leber's congenital amaurosis 9; LCA9; PNAT1; NMNAT; NMNAT1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. 20mM Tris-HCl Buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT. 1mM EDTA
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMENS EKTEVLLAC GSFNPITNMH LRLFELAKDY MNGTGRTYTV KGIISPVGDA YKKKGLIPAY HRVIMAELAT KNSKWVEVDT WESLQKEWKE TLKVLRRHHQE KLEASDCDHQ QNSPTLERPG RKRKWTETQD SSQKKSLEPK TKAVPKVKLL CGADLLESFA VPNLWKSEDI TQIVANYGLI CVTRAGNDAQ KFIYESDVLW KHRSNIHVVN EWIANDISST KIRRALRRGQ SIRYLVPDLV QEYIEKHNLV SSESEDRNAG VILAPLQRNT AEAK
Sequence Length	279
Applicable Applications for NMNAT1 active protein	SDS-PAGE, ELISA
Tag Information	His-tag
Domain	1-279aa
Biological Activity	Specific activity is > 7,000 pmol/min/ug, and was obtained by measuring the beta-NAD from nicotinamide mononucleotide and ATP per minute at pH 8.0 at 37C.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Can be stored at +2°C to +8°C for one week. For long term storage , aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE
3 ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for NMNAT1 active protein	NMNAT1, also known as NMNAT or PNAT1, 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. It is widely expressed with high levels in skeletal muscle, heart, liver and kidney. This protein appears to have the ability to protect against axonal degeneration following mechanical or toxic insults. Recombinant human NMNAT1 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for NMNAT1 active protein	Neurological proteins
References	Emanuelli M. et al. (2001) J Biol Chem. 276 (1):406-12.; Zhou T.,,et al. (2002) J Biol Chem. 277 (15):13148-54.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20070321
NCBI GeneID	64802
NCBI Accession #	NP_073624
NCBI GenBank Nucleotide #	NM_022787.3
UniProt Accession #	Q9HAN9; Q8TAE9; Q9H247; Q9H6B6; B1AN63
Molecular Weight	36.0 kDa (315aa) confirmed by MALDI-TOF
NCBI Official Full Name	nicotinamide/nicotinic acid mononucleotide adenylyltransferase 1 isoform 1
NCBI Official Synonym Full Names	nicotinamide nucleotide adenylyltransferase 1
NCBI Official Symbol	NMNAT1
NCBI Official Synonym Symbols	LCA9; NMNAT; PNAT1
NCBI Protein Information	nicotinamide/nicotinic acid mononucleotide adenylyltransferase 1
UniProt Protein Name	Nicotinamide/nicotinic acid mononucleotide adenylyltransferase 1
UniProt Gene Name	NMNAT1
UniProt Synonym Gene Names	NMNAT; NMN/NaMN adenylyltransferase 1; NMN adenylyltransferase 1; NaMN adenylyltransferase 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

