

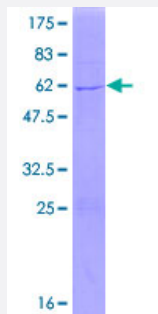
Full-Length

NMNAT1 (Human) Recombinant Protein (P01)

Catalog # H00064802-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human NMNAT1 full-length ORF (NP_073624.2, 1 a.a. - 279 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MENSEKTEVVLLACGSFNPITNMHLRLFELAKDYMNGTGRTYTVVKGIISPVGDAYKKKGLIPAYHRV IMAEATKNSKWVEVDTWESLQKEWKETLKVLRHHQEKLEASDCDHQQNSPTLERPGRKRKWT ETQDSSQKKSLEPKTKAVPKVKLLCGADLLESFAVPNLWKSEDTQVANYGLICVTRAGNDAQK FIYESDVLWKHRSNIHVVNEWIANDISSTKIRRALRRGQSIRYLPDLVQEYIEKHNLVSSSESDRNA GVILAPLQRNTAEAKT
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	58.3
Interspecies Antigen Sequence	Mouse (82); Rat (82)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NMNAT1

Entrez GeneID[64802](#)**GeneBank Accession#**[NM_022787.3](#)**Protein Accession#**[NP_073624.2](#)**Gene Name**

NMNAT1

Gene Alias

NMNAT, PNAT-1, PNAT1

Gene Description

nicotinamide nucleotide adenyltransferase 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 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]).[supplied by OMIM]

Other Designations

NMN adenyltransferase|OTTHUMP00000001731|pyridine nucleotide adenyltransferase 1

Pathway

- [Metabolic pathways](#)
- [Nicotinate and nicotinamide metabolism](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Tobacco Use Disorder](#)