

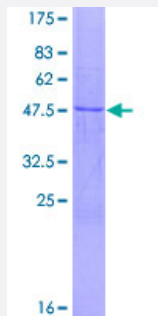
Full-Length

# NMNAT3 (Human) Recombinant Protein (P01)

Catalog # H00349565-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human NMNAT3 full-length ORF ( NP\_835471.1, 1 a.a. - 215 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MYQVIQGIISPVNDTYGKKDLAASHHRVAMARLALQTS DWIRVDPWESEQAQWMETVKVLRHHH  
SKLLRSP PQMEGPDHGKALFSTPAAVPELKLLCGADV LKTFQTPNLWKDAHIQEMEKFGLVCVG  
RVGHDPKGYAESPIRMHQHNIHLAKEPVQNEISATYIRRALGQQQSVKYLIPDAVITYIKDHGLYTK  
GSTWKGKSTQSTEGKTS

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

50.5

### 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 — NMNAT3

Entrez GeneID [349565](#)

GeneBank Accession# [NM\\_178177.2](#)

Protein Accession# [NP\\_835471.1](#)

Gene Name NMNAT3

Gene Alias PNAT-3, PNAT3

Gene Description nicotinamide nucleotide adenyltransferase 3

Omim ID [608702](#)

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** pyridine nucleotide adenyltransferase 3

## Pathway

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