

# Product information

## NMNAT1, 1-279 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0643

**Full name:** Nicotinamide nucleotide adenyltransferase 1

**NCBI Accession No.:** NP\_073624

**Synonyms:** NMNAT, PNAT1

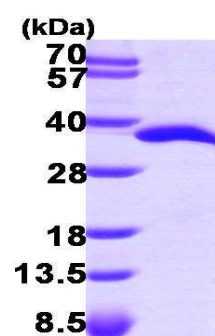
**Description:** NMNAT1, also known as NMNAT or PNAT1, is a central enzyme in NAD biosynthesis, catalyzing the condensation of nicotinamide mononucleotide (NMN) or nicotinic acid mononucleotide (NaMN) with the AMP moiety of ATP to form NAD or NaAD. It is widely expressed with high levels in skeletal 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.

**Form:** Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol  
0.1M NaCl, 1mM DTT, 1mM EDTA

**Molecular Weight:** 36.0 kDa (315aa) confirmed by MALDI-TOF

**Purity:** > 95% by SDS - PAGE

**Concentration:** 1.0 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMENS EKTEVLLAC GSFNPITNMH LRLFELAKDY MNGTGRYTVV KGIISPVGDA  
YKKKGLIPAY HRVIMAEELAT KNSKWVEVDI WESLQKEWKE TLKVLRRHHE KLEASDCDHQ QNSPTLERPG RKRKWTETQD SSQKKSLPEK  
TKAVPKVKLL CGADLLESFA VPNLWKSEDI TQIVANYGLI CVTRAGNDAQ KFIYESDVLW KHRSNIHVVN EWIANDISST KIRRALRRGQ  
SIRYLVPDLV QEYIEKHNLY SSESEDRNAG VILAPLQRNT AEAKT

### General references:

**WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.**

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Emanuelli M. *et al.* (2001) *J Biol Chem.* 276(1):406-12.

Zhou T., *et al.* (2002) *J Biol Chem.* 277(15):13148-54.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

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