

NMNAT1, 115-270aa, Human, His tag, E.coli

Cat.NO.: TP03176

3th Edition

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

Sequences:

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMENSEKTEVVLLACGSFNIPITNMHLRLFELAKDYMN
GTGRYTVVKGIIISPVGDAYKKKGLIPAYHRVIMAEATKNSKWVEVDTWESLQKEWKETLKVLRHHQEKLEASDCD
HQQNSPTLERPGRKRKWTETQDSSQKKSLEPKTKAVPKVKLLCGADLLESFAVPNLWKSEDTQIVANYGLICVTR
AGNDAQKFIYESDVLWKHRSNIHVVNEWIANDISSTKIRRALRRGQSIRYLVPLVQEYIEKHNLYSSESEDRNAGVI
LAPLQRNTAEAK

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.