

NMNAT1, 1-279aa, Human, His tag, E.coli

Cat.NO.: TP03175

3th Edition

Synonyms: Nicotinamide nucleotide adenylyltransferase 1, 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.

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:

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGS MENSEKTEVLLACGSFN PITNMHLRLFELAKDYMN
GTGRYTVVKGII SPVGDAYKKKGLIPAYHRVIMAE LATKNSKWVEVDTWESLQKEWKETLKVLRHHQE KLEASDCD
HQQNSPTLERPGRKRKWTETQDSSQKKSLEPKTKAVPKVKLLCGADLLESFAV PNLWKSEDI TQIVANYGLICVTR
AGNDAQKFIYESDVLWKHRSNIHV VNEWIANDISSTKIRRALRRGQSIRYLVPDLVQEYIEKHNLYSSESEDRNAGVI
LAPLQRNTAEAKT

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.