

NMNAT1 Human, Nicotinamide Nucleotide Adenylyltransferase 1 Human Recombinant Protein, Active

Catalog Number: PROTQ9HAN9-1

Introduction

NMNAT1 enzyme is vital for 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. NMNAT1 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.

Overview

Product Name	NMNAT1 Human, Nicotinamide Nucleotide Adenylyltransferase 1 Human Recombinant Protein , Active
Description	NMNAT1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 315 amino acids (1-279 a.a.) and having a molecular mass of 36 kDa. The NMNAT1 is fused to a 36 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.
Size	2ug, 10ug, 1mg
Tag	
Form	Sterile filtered colorless solution.
Source	E. Coli
Formulation	The NMNAT1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl, 1mM DTT and 1mM EDTA.

Concentration

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMENS EKTEVVLLAC GSFNPITNMH LRLFELAKDY MNGTGRYTVV KGIISPVGDA
YKKKGLIPAY HRVIMAE LAT KNSKWVEVD T WESLQKEWKE TLKVLRRHHQE KLEASDCDHQ QNSPTLERPG RKRKWTETQD SSQKKSLEPK
TKAVPKVKLL CGADLLESFA VPNLWKSEDI TQIVANYGLI CVTRAGNDAQ KFIYESDVLW KHRSNIHVVN EWIANDISST
KIRRALRRGQSIRYLV PDLV QEYIEKHNLY SSESEDRNAG VILAPLQRNT AEAKT.

Biological Activity

Specific activity is > 7,000 pmol/min/ug, and was obtained by measuring the beta-NAD from nicotinamide mononucleotide and ATP per minute at pH 8.0 at 37C. [?/description_after_attributes?](#)

Usage

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