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Datasheet for ABIN6387652

NMNAT1 Protein (AA 115-270) (His tag)

Overview

Quantity:	100 µg
Target:	NMNAT1
Protein Characteristics:	AA 115-270
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This NMNAT1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMENS EKTEVVLLAC GSFNPITNMH LRLFELAKDY MNGTGRTYV KGIISPVGDA YKKKGLIPAY HRVIMAEALAT KNSKWVEVDT WESLQKEWKE TLKVLRRHQE KLEASDCDHQ QNSPTLERPG RKRKWTETQD SSQKKSLEPK TKAVPKVKLL CGADLLESFA VPNLWKSEDI TQIVANYGLI CVTRAGNDAQ KFIYESDVLW KHRSNIHVVN EWIANDISST KIRRALRRGQ SIRYLPDLV QEYIEKHNLY SSESEDRNAG VILAPLQRNT AEAK
Purity:	> 95 % by SDS - PAGE
Biological Activity Comment:	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.

Target Details

Target:	NMNAT1
Alternative Name:	NMNAT1 (NMNAT1 Products)
Background:	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.
Molecular Weight:	36.0 kDa (315aa) confirmed by MALDI-TOF
NCBI Accession:	NP_073624
UniProt:	Q9HAN9

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Bioactivity Validated
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Liquid. 20 mM Tris-HCl buffer (pH 8.0) containing 20 % glycerol, 0.1M NaCl, 1 mM DTT. 1 mM EDTA
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.