
Product Data Sheet

Product Name: NMNAT2 Human
 Cat. No.: GP22004
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Nicotinamide Nucleotide Adenylyltransferase 2; C1orf15; Nicotinate-Nucleotide Adenylyltransferase 2; NaMN Adenylyltransferase 2; NMN Adenylyltransferase 2; PNAT2; KIAA0479; Chromosome 1 Open Reading Frame 15; Nicotinamide Mononucleotide Adenylyltransferase 2; Pyridine Nucleotide Adenylyltransferase 2; EC 2.7.7.1; EC2.7.7.18.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSHMTETTKTHVI LLACGSFNPI TKGHIQMFER ARDYLHKTGR FIVIGGIVSP VHDSYGKQGL VSSRHRLIMCQLAVQNSDWI RVDPWECYQD TWQTTCSVLE HHRDLMKRVT GCILSNVNTP SMTPVIGQPQ NETPQPIYQNSNVATKPTAA KILGKVGESL SRICCVRPPV ERFTFVDENA NLGTVMRYEE IELRILLGCG SDLLESFCIPGLWNEADMEV IVGDFGIVVV PRDAADTDRI MNHSSILRKY KNNIMVVKDD INHPMSVVSS TKSRLALQHGDGHVVDYLSQ PVIDYILKSQ LYINASG		
Formulation	NMNAT2 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

Introduction

Nicotinamide Nucleotide Adenylyltransferase 2, also known as NMNAT2 is a member of the nicotinamide mononucleotide adenylyltransferase (NMNAT) enzyme family, members of which catalyze a vital step in NAD (NADP) biosynthetic pathway. Unlike the other human family member, which is localized to the nucleus, and is ubiquitously expressed; NMNAT2 is cytoplasmic, and is predominantly expressed in the brain. Two transcript variants encoding different isoforms have been found for NMNAT2. Among the diseases associated with NMNAT2 are tauopathy, and systemic lupus erythematosus.

Biological Activity

Specific activity: > 500 pmol/min/μg. One unit will convert 1.0 pmole of beta-NADH per

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minute to beta-NAD at PH 8.0 at 37°C .

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

NMNAT2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 327 amino acids (1-307 a.a) and having a molecular mass of 36.6kDa.

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