
Product Data Sheet

Product Name: NMNAT1 Mouse
 Cat. No.: GP22003
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Nicotinamide/nicotinic acid mononucleotide adenylyltransferase 1; NMNAT1; NMN/NaMN adenylyltransferase 1; Nicotinamide mononucleotide adenylyltransferase 1; NMN adenylyltransferase; Nicotinate-nucleotide adenylyltransferase 1; NaMN adenylyltransferase 1; D4Cole1e; Nmnat.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMDSSKKT EVLLACGSF NPITNMHLRL FELAKDYMHA TGKYSVIKGI ISVGDAYKK KGLIPAHHRI IMAELATKNS HWVEVDTWES LQKEWVETVK VLRYHQEKLA TGSCSYQSS PALEKPGRKR KWADQKQDSS PQQPQEPKPT GVPKVKLLCG ITNDISSTKI RRALRRGQSI RYLVPDLVQE YIEKHELYNT ESEGRNAGVT LAPLQRNAAE AKHNHSTL.		
Formulation	NMNAT1 protein solution (1mg/ml) containing Phosphate Buffered Saline (pH7.4), 20% glycerol and 1mM EDTA.		

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.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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NMNAT1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 308 amino acids (1-285 a.a) and having a molecular mass of 34.7kDa. NMNAT1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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