

## 32-6859: NMNAT1 Mouse

**Alternative Name :** 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.

### Description

Source: Escherichia Coli.

Sterile filtered colourless solution.

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.

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.

### Product Info

**Amount :** 1 µg / 5 µg

**Purification :** Greater than 95.0% as determined by SDS-PAGE.

**Content :** NMNAT1 protein solution (1mg/ml) containing Phosphate Buffered Saline (pH7.4), 20% glycerol and 1mM EDTA.

**Storage condition :** 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.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSMDSSKKT EVVLLACGSF NPITNMHLRL FELAKDYMHA TGKYSVIKGI ISPVGDAYKK KGLIPAHHRI IMAELATKNS HWVEVDTWES LQKEWVETVK VLRYHQEKLA TGSCSYQSS PALEKPGRKR KWADQKQDSS PQKPQEPKPT GVPKVKLLCG ITNDISSTKI RRALRRGQSI RYLVPDLVQE YIEKHELYNT ESEGRNAGVT LAPLQRNAAE AKHNHSTL.