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NMNAT1, human recombinant protein

Nicotinamide Mononucleotide Adenylyl-transferase 1, NMN Adenylyltransferase 1; NaMN Adenylyltransfer

Catalog # PBV11170r

Specification

NMNAT1, human recombinant protein - Product info

Primary Accession	Q9HAN9
Concentration	1
Calculated MW	~33.3 kDa (monomer). Human full-length NMNAT1 (aa 1-279) is fused at the N-terminus to a His-tag. KDa

NMNAT1, human recombinant protein - Additional Info

Gene ID	64802
Gene Symbol	NMNAT1

Other Names
Nicotinamide Mononucleotide Adenylyl-transferase 1, NMN Adenylyltransferase 1; NaMN Adenylyltransferase 1; EC 2.7.7.1.

Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	≥ 5U/mg protein. One unit is defined as the amount of enzyme that synthesizes 1 µmol of NAD+ per min.

Target/Specificity
NMNAT1

Format
Liquid

Storage
-20°C; 1 mg/ml in 50 mM sodium phosphate, pH 8.0 containing 300 mM sodium chloride, 2 mM DTT and 10% glycerol.

NMNAT1, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NMNAT1, human recombinant protein - Images

NMNAT1, human recombinant protein - Background

This is the nuclear NMNAT isoform. It catalyzes the formation of NAD+ from nicotinamide mononucleotide (NMN) and ATP. It can also use the deamidated form of nicotinic acid mononucleotide (NAMN) as substrate with the same efficiency. It interacts with PARP-1/ARTD1. It protects against axonal degeneration following mechanical or toxic insults. It is widely expressed.

NMNAT1, human recombinant protein - References

Schweiger M.,et al.FEBS Lett. 492:95-100(2001).
Emanuelli M.,et al.J. Biol. Chem. 276:406-412(2001).
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