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Datasheet for ABIN2745774  
**NMNAT3 Protein (AA 1-252) (His tag)**

### Overview

Quantity:	10 µg
Target:	NMNAT3
Protein Characteristics:	AA 1-252
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This NMNAT3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

### Product Details

Cross-Reactivity:	Human
Characteristics:	Human full-length NMNAT3 (aa 1-252) is fused at the N-terminus to a His-tag.
Purity:	>95 % (SDS-PAGE)

### Target Details

Target:	NMNAT3
Alternative Name:	NMNAT3 ( <a href="#">NMNAT3 Products</a> )
Background:	Mitochondrial NMNAT isoform. Catalyzes the formation of NAD <sup>+</sup> from nicotinamide mononucleotide (NMN) and ATP. Can also use the deamidated form of nicotinic acid

## Target Details

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mononucleotide (NAMN) as substrate with the same efficiency. Can use tiazofurin monophosphate as substrate. Can also use GTP and ITP as nucleotide donors. Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage of NAD<sup>+</sup>. For the pyrophosphorolytic activity, mitochondrial NMNAT isoform can use NAD(+), NADH, NAAD, nicotinic acid adenine dinucleotide phosphate (NHD), nicotinamide guanine dinucleotide (NGD) as substrates. Fails to cleave phosphorylated dinucleotides NADP<sup>+</sup>, NADPH and NAADP<sup>+</sup>. Protects against axonal degeneration following injury.

Molecular Weight: ~27kDa (monomer)

UniProt: [Q96T66](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

Comment: >2U/mg protein. One unit is defined as the amount of enzyme that synthesizes 1µmol of NAD<sup>+</sup> per min.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: Lot specific

Buffer: In 50 mM TRIS-HCl, pH 8.0, containing 300 mM sodium chloride, 1 mM DTT and 10 % glycerol.

Preservative: Dithiothreitol (DTT)

Precaution of Use: This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Short Term Storage: +4°C  
Long Term Storage: -20°C  
Working aliquots are stable for up to 3 months when stored at -20°C.