

## Product datasheet

# Recombinant human NMNAT3 protein ab157274

### Description

<b>Product name</b>	Recombinant human NMNAT3 protein
<b>Biological activity</b>	Specific Activity: 2.35 U/mg.
<b>Purity</b>	> 95 % SDS-PAGE.
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<u><b>Q96T66</b></u>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<p>MKSRIPVVLLACGSFNPITNMHLRMFEVARDHLHQTGMVQ          VIQGIISPVN          DTYGKKDLAASHHRVAMARLALQTSDWIRVDPWESEQA          QWMETVKVLRHH          HSKLLRSPQMEGPDHGKALFSTPAAVPELKLLCGADVL          KTFQTPNLWKD          AHIQEIVEKFGLVCVGRVGHDPKGYAESPILRMHQHNIHLA          KEPVQNEI          SATYIRRALGQGQSVKYLIPDAVITYIKDHGLYTKGSTWKGK          STQSTEGK TS</p>
<b>Predicted molecular weight</b>	30 kDa including tags
<b>Amino acids</b>	1 to 252
<b>Tags</b>	His tag N-Terminus

### Specifications

Our **Abpromise guarantee** covers the use of **ab157274** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Functional Studies
	SDS-PAGE
<b>Form</b>	Liquid

## Preparation and Storage

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### Stability and Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Constituents: 0.02% (R\*,R\*)-1,4-Dimercaptobutan-2,3-diol, 0.79% Tris HCl, 10% Glycerol (glycerin, glycerine), 1.75% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

## General Info

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### Function

Catalyzes the formation of NAD(+) from nicotinamide mononucleotide (NMN) and ATP. Can also use the deamidated form; nicotinic acid mononucleotide (NaMN) as substrate with the same efficiency. Can use triazofurin monophosphate (TrMP) as substrate. Can also use GTP and ITP as nucleotide donors. Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage of NAD(+). For the pyrophosphorolytic activity, can use NAD (+), NADH, NAAD, nicotinic acid adenine dinucleotide phosphate (NHD), nicotinamide guanine dinucleotide (NGD) as substrates. Fails to cleave phosphorylated dinucleotides NADP(+), NADPH and NAADP(+). Protects against axonal degeneration following injury.

### Tissue specificity

Expressed in lung and spleen with lower levels in placenta and kidney.

### Pathway

Cofactor biosynthesis; NAD(+) biosynthesis; NAD(+) from nicotinamide D-ribonucleotide: step 1/1.

### Sequence similarities

Belongs to the eukaryotic NMN adenylyltransferase family.

### Cellular localization

Mitochondrion.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
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If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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