

Datasheet for ABIN3084404 NMNAT1 Protein (AA 1-279) (Strep Tag)



Overview Quantity: 1 mg NMNAT1 Target: Protein Characteristics: AA 1-279 Origin: Human Source: Tobacco (Nicotiana tabacum) Protein Type: Recombinant Purification tag / Conjugate: This NMNAT1 protein is labelled with Strep Tag. Application: SDS-PAGE (SDS), ELISA, Western Blotting (WB) Product Details Sequence: MENSEKTEVV LLACGSFNPI TNMHLRLFEL AKDYMNGTGR YTVVKGIISP VGDAYKKKGL IPAYHRVIMA ELATKNSKWV EVDTWESLQK EWKETLKVLR HHQEKLEASD CDHQQNSPTL ERPGRKRKWT ETQDSSQKKS LEPKTKAVPK VKLLCGADLL ESFAVPNLWK SEDITQIVAN YGLICVTRAG NDAQKFIYES DVLWKHRSNI HVVNEWIAND ISSTKIRRAL RRGQSIRYLV PDLVQEYIEK HNLYSSESED RNAGVILAPL QRNTAEAKT Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us. Characteristics: Key Benefits: • Made in Germany - from design to production - by highly experienced protein experts. Protein expressed with ALiCE® and purified in one-step affinity chromatography · These proteins are normally active (enzymatically functional) as our customers have

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• State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression
	System (AliCE®).
Purity:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target:	NMNAT1
Alternative Name:	NMNAT1 (NMNAT1 Products)
Background:	Nicotinamide/nicotinic acid mononucleotide adenylyltransferase 1 (NMN/NaMN
	adenylyltransferase 1) (EC 2.7.7.1) (EC 2.7.7.18) (Nicotinamide-nucleotide adenylyltransferase

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	ECO:0000269 PubMed:17402747, ECO:0000269 PubMed:27257257}.
	toxic insults (By similarity). {ECO:0000250 UniProtKB:Q9EPA7,
	NaADP(+) (PubMed:17402747). Protects against axonal degeneration following mechanical or
	histones (By similarity). Fails to cleave phosphorylated dinucleotides NADP(+), NADPH and
	ribosylation by directing PARP1 catalytic activity to glutamate and aspartate residues on
	consuming (PubMed:27257257). Also acts as a cofactor for glutamate and aspartate ADP-
	Nuclear ATP generation is required for extensive chromatin remodeling events that are energy-
	synthesis of ATP in the nucleus, together with PARP1, PARG and NUDT5 (PubMed:27257257).
	nicotinamide guanine dinucleotide (NGD) less effectively (PubMed:17402747). Involved in the
	as substrates and degrades NADH, nicotinic acid adenine dinucleotide phosphate (NHD) and
	of NAD(+) (PubMed:17402747). For the pyrophosphorolytic activity, prefers NAD(+) and NaAD
	(PubMed:17402747). Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage
	(PubMed:17402747). Can use triazofurin monophosphate (TrMP) as substrate
	nicotinic acid mononucleotide (NaMN) as substrate with the same efficiency
	mononucleotide (NMN) and ATP (PubMed:17402747). Can also use the deamidated form,
	adenylyltransferase 1),FUNCTION: Catalyzes the formation of NAD(+) from nicotinamide
	1) (NMN adenylyltransferase 1) (Nicotinate-nucleotide adenylyltransferase 1) (NaMN

Molecular Weight:	31.9 kDa
UniProt:	Q9HAN9

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

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Application Details

Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)