Datasheet for ABIN7558783

NMNAT2 Protein (AA 1-307) (His tag)

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Overview

Quantity:	1 mg
Target:	NMNAT2
Protein Characteristics:	AA 1-307
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NMNAT2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Nmnat2 Protein expressed in mammalien cells.
Sequence:	MTETTKTHVI LLACGSFNPI TKGHIQMFER ARDYLHKTGR FIVIGGIVSP VHDSYGKQGL VSSRHRLIMC QLAVQNSDWI RVDPWECYQD TWQTTCSVLE HHRDLMKRVT GCILSNVNTP SMTPVIGQPQ HENTQPIYQN SNVPTKPTAA KILGKVGESL SRICCVRPPV ERFTFVDENA NLGTVMRYEE IELRILLLCG SDLLESFCIP GLWNEADMEV IVGDFGIVVV PRDAADTDRI MNHSSILRKY KNNIMVVKDD INHPMSVVSS TKSRLALQHG DGHVVDYLSQ PVIDYILKSQ LYINASG **Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.

Product Details

	• Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	NMNAT2
Alternative Name:	Nmnat2 (NMNAT2 Products)
Background:	Nicotinamide/nicotinic acid mononucleotide adenylyltransferase 2 (NMN/NaMN adenylyltransferase 2) (EC 2.7.7.1) (EC 2.7.7.18) (Nicotinamide mononucleotide adenylyltransferase 2) (NMN adenylyltransferase 2) (Nicotinate-nucleotide adenylyltransferase 2) (NaMN adenylyltransferase 2) (Protein bloated bladder) (Blad),FUNCTION: Nicotinamide/nicotinate-nucleotide adenylyltransferase that acts as an axon maintenance factor (PubMed:20126265, PubMed:23082226). Axon survival factor required for the maintenance of healthy axons: acts by delaying Wallerian axon degeneration, an evolutionarily conserved process that drives the loss of damaged axons (PubMed:20126265, PubMed:23082226, PubMed:25818290). Catalyzes the formation of NAD(+) from nicotinamide mononucleotide (NMN) and ATP (By similarity). Can also use the deamidated form, nicotinic acid mononucleotide (NaMN) as substrate but with a lower efficiency. Cannot use triazofurin monophosphate (TrMP) as substrate (By similarity). Also catalyzes the reverse reaction, i.e. the pyrophosphorolytic cleavage of NAD(+). For the pyrophosphorolytic activity prefers NAD(+), NADH and NaAD as substrates and degrades nicotinic acid adenine dinucleotide phosphate (NHD) less effectively (By similarity). Fails to cleave phosphorylated dinucleotides NADP(+),

Target Details

	NADPH and NaADP(+) (By similarity). Also acts as an activator of ADP-ribosylation by supporting the catalytic activity of PARP16 and promoting mono-ADP-ribosylation of ribosomes by PARP16 (By similarity). {ECO:0000250|UniProtKB:Q9BZQ4, ECO:0000269|PubMed:20126265, ECO:0000269|PubMed:23082226, ECO:0000269|PubMed:25818290}.
Molecular Weight:	34.5 kDa
UniProt:	Q8BNJ3

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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months