Datasheet for ABIN7564627

NAT10 Protein (AA 1-1024) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	NAT10
Protein Characteristics:	AA 1-1024
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NAT10 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Nat10 Protein expressed in mammalian cells.
Sequence:	MNRKKVDNRI RILIENGVAE RQRSLFVVVG DRGKDQVVIL HHMLSKATVK ARPSVLWCYK KELGFSSHRK KRMRQLQKKI KSGTLNLKQD DPFELFVAAT NIRYCYYNET HKILGNTFGM CVLQDFEALT PNLLARTVET VEGGGLVVIL LRTMNSLKQL YTMTMDVHSR YRTEAHQDVV GRFNERFILS LASCKKCLVI DDQLDILPIS SHVASIEALP PQAPDENLSP AALELLELKE SLQDTQPVGV LVDCCKTLDQ AKAVLKFIEG ISEKTLRSTV ALTAARGRGK SAALGLAIAG AVAFGYSNIF VTSPSPDNLH TLFEFVFKGF DALQYQEHLD YEIVQSLNPE FNKAVIRVNV FREHRQTIQY IHPADAVKLG QAELVVIDEA AAIPLPLVKS LLGPYLVFMA STINGYEGTG RSLSLKLIQQ LRQQSAQSQV STTAENKTTT TARLASARTL HEVSLQESIR YAPGDAVEKW LNDLLCLDCL NITRIVSGCP LPEACELYYV NRDTLFCYHK ASEVFLQRLM ALYVASHYKN SPNDLQMLSD APAHHLFCLL PPVPPTQNAL PEVLAVVQVC LEGEISRQSI LNSLSRGKKA SGDLIPWTVS EQFQDPDFGG LSGGRVVRIA VHPDYQGMGY GSRALQLLQM YYEGKFPCLE EKVLETPQEI RTVSSEAVSL LEEVITPRKD LPPLLLKLNE RPAERLDYLG VSYGLTPRLL

Product Details

	KFWKRAGFVP VYLRQTPNDL TGEHSCIMLK TLADEDEAEQ GAWLAAFWKD FRRRFLALLS YQFSTFSPAL SLNIIQNRNV AKSALPALGR EHLEALFLPY DLKRLEMYSR NMVDYHLIMD LIPAISRLYF LNQLGDLSLS AAQSALLLGI GLQHKSVDQL EKEIELPSGQ LMGLFNRIIR KVVKLFNDVQ EKAIEEQMVA VKDVVMEPTM KTLSDDLDEA AKEFQEKHKK EVGKLKDMDL SQYVIRGDDE EWNEVLSKAG QNASIVSLKS DKKRKLETKQ EPKQSKKLKK RDNNRKDMKL KRKK **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	NAT10
Alternative Name:	Nat10 (NAT10 Products)
Background:	RNA cytidine acetyltransferase (EC 2.3.1.-) (18S rRNA cytosine acetyltransferase) (N-acetyltransferase 10),FUNCTION: RNA cytidine acetyltransferase that catalyzes the formation of N(4)-acetylcytidine (ac4C) modification on mRNAs, 18S rRNA and tRNAs. Catalyzes ac4C

Target Details

	modification of a broad range of mRNAs, enhancing mRNA stability and translation. mRNA ac4C modification is frequently present within wobble cytidine sites and promotes translation efficiency. Mediates the formation of ac4C at position 1842 in 18S rRNA (By similarity). May also catalyze the formation of ac4C at position 1337 in 18S rRNA (By similarity). Required for early nucleolar cleavages of precursor rRNA at sites A0, A1 and A2 during 18S rRNA synthesis (By similarity). Catalyzes the formation of ac4C in serine and leucine tRNAs (By similarity). Requires the tRNA-binding adapter protein THUMPD1 for full tRNA acetyltransferase activity but not for 18S rRNA acetylation. In addition to RNA acetyltransferase activity, also able to acetylate lysine residues of proteins, such as histones, microtubules, p53/TP53 and MDM2, in vitro. The relevance of the protein lysine acetyltransferase activity is however unsure in vivo. Activates telomerase activity by stimulating the transcription of TERT, and may also regulate telomerase function by affecting the balance of telomerase subunit assembly, disassembly, and localization. Involved in the regulation of centrosome duplication by acetylating CENATAC during mitosis, promoting SASS6 proteasome degradation (By similarity). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (By similarity). {ECO:0000250|UniProtKB:P53914, ECO:0000250|UniProtKB:Q9H0A0}.
Molecular Weight:	115.4 kDa
UniProt:	Q8K224

Application Details

Application Notes:	We expect the protein to work for functional studies. 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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months