Datasheet for ABIN7563598

RNASEL Protein (AA 1-735) (His tag)

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Overview

Quantity:	1 mg
Target:	RNASEL
Protein Characteristics:	AA 1-735
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNASEL protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Rnasel Protein expressed in mammalian cells.
Sequence:	METPDYNTPQ GGTPSAGSQR TVVEDDSSLI KAVQKGDVVR VQQLLEKGAD ANACEDTWGW TPLHNAVQAG RVDIVNLLLS HGADPHRRKK NGATPFIIAG IQGDVKLLEI LLSCGADVNE CDENGFTAFM EAAERGNAEA LRFLFAKGAN VNLRRQTTKD KRRLKQGGAT ALMSAAEKGH LEVLRILLND MKAEVDARDN MGRNALIRTL LNWDCENVEE ITSILIQHGA DVNVRGERGK TPLIAAVERK HTGLVQMLLS REGINIDARD NEGKTALLIA VDKQLKEIVQ LLLEKGADKC DDLVWIARRN HDYHLVKLLL PYVANPDTDP PAGDWSPHSS RWGTALKSLH SMTRPMIGKL KIFIHDDYKI AGTSEGAVYL GIYDNREVAV KVFRENSPRG CKEVSCLRDC GDHSNLVAFY GREDDKGCLY VCVSLCEWTL EEFLRLPREE PVENGEDKFA HSILLSIFEG VQKLHLHGYS HQDLQPQNIL IDSKKAVRLA DFDQSIRWMG ESQMVRRDLE DLGRLVLYVV MKGEIPFETL KTQNDEVLLT MSPDEETKDL IHCLFSPGEN VKNCLVDLLG HPFFWTWENR YRTLRNVGNE SDIKVRKCKS DLLRLLQHQT LEPPRSFDQW TSKIDKNVMD EMNHFYEKRK KNPYQDTVGD LLKFIRNIGE HINEEKKRGM KEILGDPSRY FQETFPDLVI YIYKKLKETE YRKHFPQPPP

Product Details

	RLSVPEAVGP GGIQS **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:	RNASEL
Alternative Name:	Rnasel (RNASEL Products)
Background:	2-5A-dependent ribonuclease (2-5A-dependent RNase) (EC 3.1.26.-) (Ribonuclease 4) (Ribonuclease L) (RNase L),FUNCTION: Endoribonuclease that functions in the interferon (IFN) antiviral response. In INF treated and virus infected cells, RNASEL probably mediates its antiviral effects through a combination of direct cleavage of single-stranded viral RNAs, inhibition of protein synthesis through the degradation of rRNA, induction of apoptosis, and induction of other antiviral genes. RNASEL mediated apoptosis is the result of a JNK-dependent stress-response pathway leading to cytochrome c release from mitochondria and caspase-dependent apoptosis. Therefore, activation of RNASEL could lead to elimination of virus

Target Details

	infected cells under some circumstances. In the crosstalk between autophagy and apoptosis proposed to induce autophagy as an early stress response to small double-stranded RNA and at later stages of prolonged stress to activate caspase-dependent proteolytic cleavage of BECN1 to terminate autophagy and promote apoptosis. Might play a central role in the regulation of mRNA turnover (By similarity). Cleaves 3' of UpNp dimers, with preference for UU and UA sequences, to sets of discrete products ranging from between 4 and 22 nucleotides in length (By similarity). {ECO:0000250|UniProtKB:Q05823, ECO:0000269|PubMed:11585831}.
Molecular Weight:	83.3 kDa
UniProt:	Q05921
Pathways:	Hepatitis C

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