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



Image



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Overview

Quantity:	1 mg
Target:	RNASEL
Protein Characteristics:	AA 1-735
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNASEL protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

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

RLSVPEAVGP GGIQS

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Rnasel Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Product Details Grade: Crystallography grade **Target Details** Target: **RNASEL** Alternative Name Rnasel (RNASEL Products) Background: 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 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). {ECO:0000250|UniProtKB:Q05823, ECO:0000269|PubMed:11585831}. Molecular Weight: 84.2 kDa Including tag. UniProt: Q05921 Hepatitis C Pathways: **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 gurantee though. Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible

For Research Use only

Restrictions:

options with you in detail to assure that you receive your protein of interest.

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images

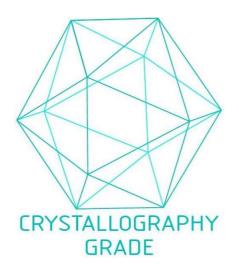


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process