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Datasheet for ABIN3134522

EXOSC10 Protein (AA 1-887) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	EXOSC10
Protein Characteristics:	AA 1-887
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EXOSC10 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MAPPSPREHQ SAPATSATKP DAEMVLPGFP DADSFVKFAL GSVVAVTKAS GGLPQFGDEY
 DFYRSFPAFQ AFCETQGDRL LQCMSRVMQY HGCRSNIKDR SKVTELEDKF DLLVDTNDVI
 LERVGMLLDE ASGVNKHQQP VLPAGLQVPK TIVSSWNRKA GEYGKKAKESE TFRLLHAKNI
 VRPQLRFREK IDNSNTPFLP KIFVKPNARK PLPLALSKER RERPQDRPED LDVPPALADF
 IHQQRTOQVE QDMFAHPYQY ELDHFTPPQS VLQRPKPQLY RAVGETPCHL VSSLDELVEL
 NEKLLGCQEF AVDLHHYSYR SFLGLTCLMQ ISTRTEDFIV DTLELRSDMY ILNESLTDPA
 IVKVFHGADS DIEWLQKDFG LYVVNMFDTL QAARLLNLAR HSLDHLRLRY CGVESNKQYQ
 LADWRIRPLP EEMLSYARDD THYLLEYDR MRLELWERGN HQPVQLQVWV QRSRDICLKK
 FVKPIFTDES YLELYRKQKK HLNQQQLTAF QLLFAWRDKT ARREDESYGY VLPNHMMLKI
 AEELPKPEQG IACCNPVPP LVRQQINEMH LLIQAREMP LLKSENAAGV RKSGLPLPSAE
 RLENDLFGPH DCSHAPPDNY QNTSTDGTLPL LQKQPSLFTE GKEETSVDAG CLLATAVITL
 FSEPNTTEGG KTPLTVAQKK AQNIMQSFEN PFRMFLPSLE HKAHISQAAK FDPSSKIYEI

SNRWKLASQV QVQKEPKEAT KKKVAEQTAA REEAKEEAAA GVLEQAIPVR QQAALENATK
KRERATSDLR TIEQKQEKKR LKSSKKAKDP DPPGKDFSPY DYSQSDFRAF AGDSKSKPSS
QFDPNKLAPS GKKGVGAKKC KQSVGNKSMS FAVGKSDRGF RHNWPKR

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 Exosc10 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 receipt 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.
2. 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

Product Details

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: EXOSC10

Alternative Name: Exosc10 ([EXOSC10 Products](#))

Background: Putative catalytic component of the RNA exosome complex which has 3'->5' exoribonuclease activity and participates in a multitude of cellular RNA processing and degradation events. In the nucleus, the RNA exosome complex is involved in proper maturation of stable RNA species such as rRNA, snRNA and snoRNA, in the elimination of RNA processing by-products and non-coding 'pervasive' transcripts, such as antisense RNA species and promoter-upstream transcripts (PROMPTs), and of mRNAs with processing defects, thereby limiting or excluding their export to the cytoplasm. The RNA exosome may be involved in Ig class switch recombination (CSR) and/or Ig variable region somatic hypermutation (SHM) by targeting AICDA deamination activity to transcribed dsDNA substrates. In the cytoplasm, the RNA exosome complex is involved in general mRNA turnover and specifically degrades inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. It seems to be involved in degradation of histone mRNA. EXOSC10 has 3'-5' exonuclease activity (By similarity). EXOSC10 is required for nucleolar localization of C1D and probably mediates the association of SKIV2L2, C1D and MPP6 with the RNA exosome involved in the maturation of 5.8S rRNA (By similarity). {ECO:0000250}.

Molecular Weight: 101.9 kDa Including tag.

UniProt: [P56960](#)

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

Application Details

Restrictions: For Research Use only

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