antibodies

Datasheet for ABIN3092408 EXOSC3 Protein (AA 2-275) (His tag)

Image



Overview

Quantity:	1 mg
Target:	EXOSC3
Protein Characteristics:	AA 2-275
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EXOSC3 protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence:	AEPASVAAES LAGSRARAAR TVLGQVVLPG EELLLPEQED AEGPGGAVER PLSLNARACS
	RVRVVCGPGL RRCGDRLLVT KCGRLRHKEP GSGSGGGVYW VDSQQKRYVP VKGDHVIGIV
	TAKSGDIFKV DVGGSEPASL SYLSFEGATK RNRPNVQVGD LIYGQFVVAN KDMEPEMVCI
	DSCGRANGMG VIGQDGLLFK VTLGLIRKLL APDCEIIQEV GKLYPLEIVF GMNGRIWVKA
	KTIQQTLILA NILEACEHMT SDQRKQIFSR LAES
	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.
	Human EXOSC3 Protein (raised in Insect Cells) purified by multi-step, protein-specific
	 Human EXOSC3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

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	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:
	 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
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	EXOSC3
Alternative Name:	EXOSC3 (EXOSC3 Products)
Background:	Non-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

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	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. The catalytic inactive RNA exosome core complex of 9
	subunits (Exo-9) is proposed to play a pivotal role in the binding and presentation of RNA for
	ribonucleolysis, and to serve as a scaffold for the association with catalytic subunits and
	accessory proteins or complexes. EXOSC3 as peripheral part of the Exo-9 complex stabilizes
	the hexameric ring of RNase PH-domain subunits through contacts with EXOSC9 and EXOSC5.
	{ECO:0000269 PubMed:11782436, ECO:0000269 PubMed:17545563,
	ECO:0000269 PubMed:19056938, ECO:0000269 PubMed:21255825}.
Molecular Weight:	30.4 kDa Including tag.
UniProt:	Q9NQT5
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process,
	Production of Molecular Mediator of Immune Response, SARS-CoV-2 Protein Interactome
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: 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.

Restrictions:

For Research Use only

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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

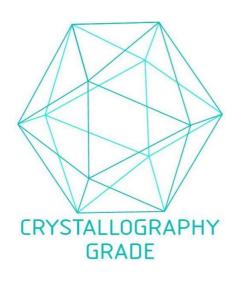


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process