Datasheet for ABIN3090818

CASC3 Protein (AA 1-703) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	CASC3
Protein Characteristics:	AA 1-703
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CASC3 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MADRRRQRAS QDTEDEESGA SGSDSGGSPL RGGGSCSGSA GGGGSGSLPS QRGGRTGALH LRRVESGGAK SAEESECESE DGIEGDAVLS DYESAEDSEG EEGEYSEEEN SKVELKSEAN DAVNSSTKEE KGEEKPDTKS TVTGERQSGD GQESTEPVEN KVGKKGPKHL DDDEDRKNPA YIPRKGLFFE HDLRGQTQEE EVRPKGRQRK LWKDEGRWEH DKFREDEQAP KSRQELIALY GYDIRSAHNP DDIKPRRIRK PRYGSPPQRD PNWNGERLNK SHRHQGLGGT LPPRTFINRN AAGTGRMSAP RNYSRSGGFK EGRAGFRPVE AGGQHGGRSG ETVKHEISYR SRRLEQTSVR DPSPEADAPV LGSPEKEEAA SEPPAAAPDA APPPPDRPIE KKSYSRARRT RTKVGDAVKL AEEVPPPPEG LIPAPPVPET TPTPPTKTGT WEAPVDSSTS GLEQDVAQLN IAEQNWSPGQ PSFLQPRELR GMPNHIHMGA GPPPQFNRME EMGVQGGRAK RYSSQRQRPV PEPPAPPVHI SIMEGHYYDP LQFQGPIYTH GDSPAPLPPQ GMLVQPGMNL PHPGLHPHQT PAPLPNPGLY PPPVSMSPGQ PPPQQLLAPT YFSAPGVMNF GNPSYPYAPG ALPPPPPPHL YPNTQAPSQV YGGVTYYNPA QQQVQPKPSP PRRTPQPVTI KPPPPEVVSR GSS

Product Details

	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 CASC3 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. 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:	CASC3
Alternative Name:	CASC3 (CASC3 Products)
Background:	Core component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junctions on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. The EJC marks the position of the exon-exon junction in the mature mRNA for the gene expression machinery and the core components remain bound to spliced mRNAs throughout all stages of mRNA metabolism thereby influencing downstream processes including nuclear mRNA export, subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay (NMD). Stimulates the ATPase and RNA-helicase activities of EIF4A3. Plays a role in the stress response by participating in cytoplasmic stress granules assembly and by favoring cell recovery following stress. Component of the dendritic ribonucleoprotein particles (RNPs) in hippocampal neurons. May play a role in mRNA transport. Binds spliced mRNA in sequence-independent manner, 20-24 nucleotides upstream of mRNA exon-exon junctions. Binds poly(G) and poly(U) RNA homopolymer. {ECO:0000269|PubMed:17375189, ECO:0000269|PubMed:17652158}.
Molecular Weight:	77.2 kDa Including tag.
UniProt:	O15234

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

Handling

Format:	Liquid

Handling

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

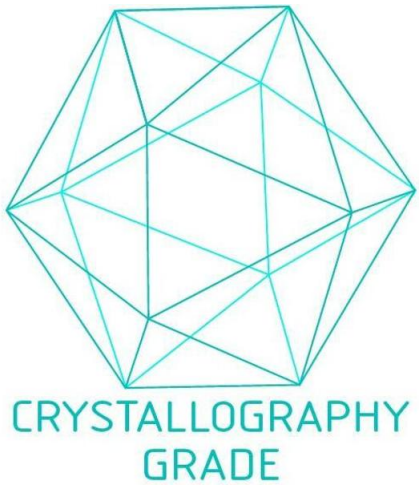

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process