Datasheet for ABIN3135614

CASC5 Protein (AA 1-1612) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	CASC5
Protein Characteristics:	AA 1-1612
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CASC5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MDGVYSEANE ENDNTQRPVR RQHSSILKPP RSPLQDLKCG NQTNQEPNPP RKRKSSRRVS FADTIKVFQT ESHMKTERNS EISGMNTLLC APIQTQMQQK EFSITDCNHE RKHANDQTVI FSDENQMDLT ASHTVMITKG LSDCTKNENS TKIDTTSFLE NLKHHAANSR IKKDLACSTV SLSQNIFSEK INSDNFIKRL KTGKHISSST ELDKENAEIP VYSKDSNSAS STYQMHASLG VDENSSNRTR IFREQDDGMN LTQCHTACIK TWIPPSTEAK IGEFKGDKTI YGNECMELTT NYTIQVLSSE NNLSERETQT QNGMNVTTVD GATAPAPEKK TALKDKLNAA FQGSFPNPEN KIHIIKCHPI ESETHTVTQI SSQSASTLAV TSKSICSSPA IEGYKTIFHS SSNDAMELTK CLSAMEEEKK LLKADDKYSK ICTNPDAGPL REKTIYLEED SMDITKSHTV AIDNKIFKHD QENIKKEIIA IPIFEKEMVL RNLMPMSKDE KRDVNYISVP QVSKESLQRS QTNTLSVSLT DKKMEFLADE DMDLTKSHTT KLSQVIPTTF DLASKNVTKS YSHSKSPLNE WESLDKQVVL GQHSKLPLPQ RKDRDDPDCS HHKIMYSEEL QTMDLTKSHT IVIGFGPSEV QEHSKINLEH KNSQLTAESI QTAVNVPAAN SRVVTTNDMD MLKDRSTHKP ELLKEKQNIK IYGRKSIGRL

KIDKTILFSE GNEGDMDITK SCTVKINHRS LLDKHDSHLV SLAGTSKTIL HARGQVEMEI NRSHTTPLEC KIISPSDITP GDLDKTMMSI DDHEELDMTK SHTVFIDYQA EAKGVLPDRL DFQLSKKESL QKPKVTSLAE EIYISKNSES NHLPAKGSQL TILEEGSNSG LGEETNDAQK PGFLNELLSG KTQRRKSLSL KNKSITFPEN DKSYREIPQS SAVEINNETR LEDRKGFSFV PLAGTSKPVL SAYGPEDMEI SIGQTTASEY KTVPPEEITT IPMDKTVMFV DNFGDLDVTR SHTVFIDCQA KEKVLDEYTN LGIQKTKTLS GSEGDTHIQE ITKNPAAQHK HHMTTVIPSS TVVSDQSSMK IKFHKADRDE EVKGKEVEAN MLKQTKPESC LLNITDGKNV DFTSSYTADV CRSSDKYSSL PNISSSDNSG GNTMSLCDKN KEKAYNCQVP NEFTYAAILP STYHMDSKKL SVFPPCPSKE VTQTESAIAL LKDEDPVEEP LGEMATFNSK HVSLNLAKDQ TEAFVDVSVA SQPHLSAQQS PSTQKGQDVA RRDEGILAKA GKKALPFLLE NVAASTWENE SKIPTNVEHF AVTYEKELSI SIQTDKCNTN VQSPSNSALT TQVIQTHANA EGALDFLVPS TVSCFSSTKP SLSNLNRKTE EVLDFQTVNL LPPAEQLLEE GSQAHSMSIV QATEIYRLGS RNDRDEESKT FCNEAETTSV PLKTAVKDKT RRCSLGIFLP KLPSKRSCSI TGVDDLEQIL ADAADLTQLE TQPVCSKDPG IGSVAAKLNL SPSQFINEEN LPVYPGEILS SDSVSLDIEE SVLIDTSQRE SLPSENKTEN CRAQKRTRVE ENDVTNEKKI RTHDSAQDQE VSCLEPKNVL EF

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 Casc5 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

Product Details

	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:	CASC5
Alternative Name:	Casc5 (CASC5 Products)
Background:	Performs two crucial functions during mitosis: it is essential for spindle-assembly checkpoint signaling and for correct chromosome alignment. Directly links spindle checkpoint proteins BUB1 and BUB1B to kinetochores. Part of the MIS12 complex, which may be fundamental for kinetochore formation and proper chromosome segregation during mitosis. Acts in coordination with CENPK to recruit the NDC80 complex to the outer kinetochore (By similarity). {ECO:0000250}.
Molecular Weight:	180.3 kDa Including tag.
UniProt:	Q66JQ7
Pathways:	Maintenance of Protein Location, Autophagy

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.

Application Details

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.
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

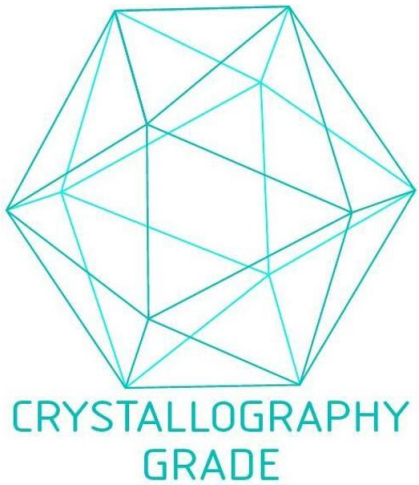

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process

