Datasheet for ABIN3135953

CP110 Protein (AA 1-1004) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	CP110 (CCP110)
Protein Characteristics:	AA 1-1004
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CP110 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MEEYEEFCEK ALGRAQEASL STGSFLPAQA ESVSLIRFHG VAVLSPLLTI EKRKKIQEEK QKALDVQSRK QANRKKALLT RVQEILENVQ VRKAPNASDF DQWATETIYS NPEVTDLNVP VRVPNSLPSP TEHCTSVKLE KITGLLPVNN EDQQTPKRVG LPGDSEVSGS LRQCESPESR QAEDGAALRL SSASPQETII SDVLGKEEQD PSCLAEVTPD PYIMSLQNLM KRSKEYVERE LSSRSLRNSL KRSVNETHSD RENDAAKASD CVKEKAPPMP IGRHCGSAIP DKPSLNKSNV LLQGASQASS MGTAGLASFS KIDLPAGAAP PAAPDAGSDF TVIPTFVTEN KVKSLKGPYA KLPSPEPSMS PTMHRRHSRS ASACQILINN PVNACELSPK GKEEAVDRTA PAAAETTNES ETVPKSPTDL TGVCSSNVSA TKITSESTRE MVVGKPSQRQ QALGAHLGNN VTVERSAMEG PFIADDRGAQ KVDGTCMAVP KLHELQPSSQ CVSSQTLEDV CELKSASLLA KNSCNLQMEL NKSYDVKHPS PLLTQTQTSR QQMDTPPVFR GNEQFVDNSF EKVKRRLDLD VDSLQKENCP YIITAGVAEQ ERDRLLERRY PKGFVHINKN KMLETSPKEG QELLKSKMLA FEEMRKRLEE QHAQQLSLLI AEQEREQEQL QKEIEEQEKM LKEKAVTTDV SDLNSALEWR QRTDSALLET

	MLSQVDSLQT SNNSGFITSA LQYSFGSAGE APFYLWGSLT SGVTRVSGTR PCGRAQAKWS QVFNPEIHAK FNKITAVAKG FLTRKLMQTD KLKQLRQTVK DTMEFIRSFQ SEAPLKRGVV SAQDASLQER VLAQLRAALY GIHDIFFVMD AAERMSILHH DREARKEKLL RQMDKMKSPR VALSVATQKS LDRKKFMKVA EMGMPNKKFL LKQNPSETRV LQPNQGQNAP VHRLLSRQGT PKTSVKGVVQ NRQKPSQSRV PNRAPVSGAY AGKTQRKRPN VATI **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 Ccp110 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.

Product Details

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:	CP110 (CCP110)
Alternative Name:	Ccp110 (CCP110 Products)
Background:	Necessary for centrosome duplication at different stages of procentriole formation. Acts as a key negative regulator of ciliogenesis in collaboration with CEP97 by capping the mother centriole thereby preventing cilia formation (PubMed:23141541). Also involved in promoting ciliogenesis. May play a role in the assembly of the mother centriole subdistal appendages (SDA) thereby effecting the fusion of recycling endosomes to basal bodies during cilia formation (PubMed:26965371). Required for correct spindle formation and has a role in regulating cytokinesis and genome stability via cooperation with CALM1 and CETN2 (By similarity). {ECO:0000250, ECO:0000269|PubMed:23141541, ECO:0000269|PubMed:26965371}.
Molecular Weight:	112.1 kDa Including tag.
UniProt:	Q7TSH4
Pathways:	M Phase

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 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

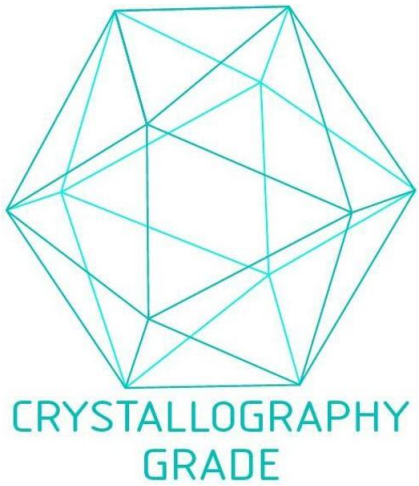

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process