

Datasheet for ABIN3091910

CP110 Protein (AA 1-1012) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	CP110 (CCP110)
Protein Characteristics:	AA 1-1012
Origin:	Human
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:	MEEYEKFCCK SLARIQEASL STESFLPAQS ESISLIRFHG VAILSPLLNI EKRKEMQCEK QKALDVEARK QVNRKKALLT RVQEILDNVQ VRKAPNASDF DQWEMETVYS NSEVRNLNVP ATFPNSFPSH TEHSTAACKL KIAGILPLDN EDQCKTDGID LARDSEGFNS PKQCDSSNIS HVENEAFFPKT SSATPQETLI SDGPFSVNEQ QDLPLLAELV PDPYVMSLQN LMKKSKEYIE REQSRRSLRG SINRIVNESH LDKEHDAVEV ADCVKEKGQL TGKHCVSVIP DKPSLNKSNV LLQGASTQAS SMSMPVLASF SKVDIPIRTG HPTVLESNSD FKVIPTFVTE NNVIKSLTGS YAKLPSPEPS MSPKMHRRRS RTSSACHILI NNPINACELS PKGKEQAMD LIIQD TDENTN VPEIMPKLPT DLAGVCSSKV YVGKNTSEVK EDVVLGKSNQ VCQSSGNHLE NKVTHGLVTV EGQLTSDERG AHIMNSTCAA MPKLHEPYAS SQCIASPNFG TVSGLKPASM LEKNCSLQTE LNKSYDVKNP SPLLMQNQNT RQQMDTPMVS CGNEQFLDNS FEKVRRRLDL DIDGLQKENC PYVITSGITE QERQHLPEKR YPKGSGFVNK NKMLGTSSKE SEELLKSKML AFEEMRKRLE EQHAQQLSLL IAEQEREQER LQKEIEEQEK MLKEKKAMTA EASELDINNA VELEWRKISD
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SSLLETMLSQ ADSLHTSNSN SSGFTNSAMQ YSFVSANEAP FYLWGSSTSG LTKLSVTRPF
GRAKTRWSQV FSLEIQAKFN KITAVAKGFL TRRLMQTDKL KQLRQTVKDT MEFIRSFQSE
APLKRIVSA QDASLQERVL AQLRAALYGI HDIFFVMDAA ERMSILHHDR EVRKEKMLRQ
MDKMKSPRVA LSAATQKSLD RKKYMKAAEM GMPNKKFLVK QNPSETRVLQ PNQGQNAPVH
RLLSRQGTPK TSVKGVVQNR QKPSQSRVPN RVPVSGVYAG KIQRKRPNVA TI

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 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 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.

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:17719545 PubMed:17681131, PubMed:23486064). 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 (By similarity). Required for correct spindle formation and has a role in regulating cytokinesis and genome stability via cooperation with CALM1 and CETN2 (PubMed:16760425). {ECO:0000250 UniProtKB:Q7TSH4, ECO:0000269 PubMed:12361598, ECO:0000269 PubMed:16760425, ECO:0000269 PubMed:17681131, ECO:0000269 PubMed:17719545, ECO:0000269 PubMed:23486064}.
Molecular Weight:	114.4 kDa Including tag.
UniProt:	O43303
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 guarantee 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.

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