

Datasheet for ABIN3091750

CILP Protein (AA 22-1184) (His tag)**1** Image[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	CILP
Protein Characteristics:	AA 22-1184
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CILP protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	RQTMLTQSVR RVQPGKKNPS IFAKPADTLE SPGEWTTWFN IDYPGGKGDY ERLDAIRFY GDRVCARPLR LEARTTDWTP AGSTGQVVHG SPREGFWCLN REQRPGQNCS NYTVRFLCPP GSLRRDTERI WSPWSPWSKC SAACGQTGVQ TRTRICLAEM VSLCSEASE GQHCMGQDCT ACDLTCPMGQ VNADCDACMC QDFMLHGAVS LPGGAPASGA AIYLLTKTPK LLTQTDSDGR FRIPGLCPDG KSILKITKVK FAPIVLTMPK TSLKAATIKA EFVRAETPYM VMNPETKARR AGQSVSLCCK ATGKPRPDYK FWYHNDTLLD PSLYKHESKL VLRKLQHQHA GEYFCKAQSD AGAVKSKVAQ LIVIASDETP CNPVPESYLI RLPDHCFQNA TNSFYVDVGR CPVKTCAGQQ DNGIRCRDAV QNCCGISKTE EREIQCSGYT LPTKVAKECS CQRCTETRSI VRGRVSAADN GEPMRFGHVY MGNSRVSMGT YKGTFTLHVP QDTERLVLT VDR LQKFVNT TKVLPFNKKG SAVFHEIKML RRRKKPITLEA METNIPLGE VVGEDPMAEL EIPSRSFYRQ NGEPIYIGVKV ASVTFLDPRN ISTATAAQTD LNFINDEGDT FPLRTYGMFS VDFRDEVTSE PLNAGKVKVH LDSTQVKMPE HISTVKLWSL NPDTGLWEEE GDFKFENQRR NKREDRTFLV GNLEIRERRL
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FNLDVPESRR CFVKVRAYRS ERFLPSEIQ GVVISVINLE PRTGFLSNPR AWGRFDSVIT
GPNGACVPAF CDDQSPDAYS AYVLASLAGE ELQAVESSPK FNPNAIGVPQ PYLNKLNRYR
TDHEDPRVKK TAFQISMAKP RPNSAEESNG PIYAFENLRA CEEAPPSAAH FRFYQIEGDR
YDYNTVPFNE DDPMSWTEDY LAWWPKPMEF RACYIKVKIV GPLEVNVRSR NMGGTHRQTV
GKLYGIRDVR STRDRDQPNV SAACLEFKCS GMLYDQDRVD RTLVKVIPQG SCRRASVNPM
LHEYLVNHLP LAVNNDTSEY TMLAPLDPLG HNYGIYTVTD QDPRTAKEIA LGRCFDGTSD
GSSRIMKSNV GVALTFNCVE RQVGRQSAFQ YLQSTPAQSP AAGTVQGRVP SRRQQRASRG
GQRQGGVVAS LRFPRVAQQP LIN

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 CILP 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.

Product Details

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: CILP

Alternative Name: CILP ([CILP Products](#))

Background: Probably plays a role in cartilage scaffolding. May act by antagonizing TGF-beta1 (TGFB1) and IGF1 functions. Has the ability to suppress IGF1-induced proliferation and sulfated proteoglycan synthesis, and inhibits ligand-induced IGF1R autophosphorylation. May inhibit TGFB1-mediated induction of cartilage matrix genes via its interaction with TGFB1. Overexpression may lead to impair chondrocyte growth and matrix repair and indirectly promote inorganic pyrophosphate (PPI) supersaturation in aging and osteoarthritis cartilage. {ECO:0000269|PubMed:12746903, ECO:0000269|PubMed:15864306}.

Molecular Weight: 131.3 kDa Including tag.

UniProt: [075339](#)

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.

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