

Datasheet for ABIN3135202  
**COBL Protein (AA 1-1337) (His tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	COBL
Protein Characteristics:	AA 1-1337
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This COBL protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MDAPRALAAK PPTGRKMKAR APPPPGKPAA QNVHSEQKLP HDATLGSQQS LVYMKEALQN  
STLDITVVLP SGLEKQSVVS GSHAMMDLLV ELCLQNHLNP SHHVLEIWSS ETQQPLSFKP  
NTLIGSLNVH TVLLKEKVE ERVKPGLTKA PEKSVRLVVN YLRTQKAVR VSPEVPLQNI  
LPVICAKCEV NPEHVILLRD NVAGEEELS KSLNELGIKE LYAWDNRREM FRKSSLGNDE  
TDKEKKKFLG FFKANKRSNS KAEHLGLSGA DSEDEPAKSA SGGDLNGCVT TPNSPSLHSR  
SLTLGPSLSL GNISGVSMKS DMKKRRAPPP PSPKLLGQDK VSEKASLSSQ ADLQKKKRRR  
PAPPPPQPP PSPVVPNRKE DKEENRKSTV GVGRQVPQKP PRGTARGPPQ LVLPPPPYP  
PPDTPVTEPV TFPGEGAGSE TSELRPKLSL PLGPGSHCSM GGVSQVPAES EETASEDTTE  
DSGVMSSPSD AISLDSQQDS MRSKDKWSTD QEDGSDQDLA GPELGPQKS PSWGKSGSGS  
SILRTEKATM PTNDDDELFI TGHLHQTLAE LDEDLEGMEE NYETDTSSLT NSVNGVSNHS  
LQEAIIPDSG VDDIPVTFIG EVSDEPFDSG LFSSRCNNAT TFNTGSIASQ RSHLSPSQTE  
HSQPFVRTSR KEPDPSPPSQ DNRKRNPQPTL ANTSENENPV ETDPTVTSLV SKLLIDDPKA

KDKGKVVHGSS HSEKTQAGHG INSLRVNPRD GKDESSNSAP PPWSHHGQAL GGSYGLKYGL  
TTYKIVPPKS EMRCYDRDVS LSTGAIKIDE LGNLVSPHMN GSRTISPPSA VVETDTPPIG  
KVKEFWRRNS MEKYLNGPAE CTIKRAPSTT ITATPEKPQQ DNGMKAFTV TTPQQQPASQ  
EYGAAHLEER SRPQSAVSCS VKVPASNPTD ITFLKQRRT SSQYVASAIA KKMGGPPKVHA  
DVVRPHKATT EQCHEEAKLA RSPPTRKDDA APNLHSEARQ HEHGTNQSSV CLPSNPGVQL  
PAGGHPKVEV NSTYGKSSTQ DYPAAVHRNS YFLPGRSSHR DRVSVGQSCG FNEKQTTSNQ  
KANSTSNFSQ ALDKAHPPL LLAEARDSGR ILMNGSARTP GNCEPPHSPK ESTLTSYIIL  
QTEEKPSLS TDGQDADDTL PSSIFGPKKK FKPVIQRPLP KDVSLHSALM EAIHSSGGRE  
KLRKTAEQTS EGRPCKPSYV EAESERSALL AAIRGHSGTL SLRKVSSLAS EELQSFRNAA  
LGAPGLDKPQ QEDLGLPPPP ALPPPPAPAP QAPSASVTVS RFSTGTPSNS VVARQALMDA  
IRSGTGAARL RKVPLLV

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Cobl 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.

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### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

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## Product Details

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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

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Target: COBL

Alternative Name: Cobl ([COBL Products](#))

Background: Plays an important role in the reorganization of the actin cytoskeleton. Binds to and sequesters actin monomers (G actin). Nucleates actin polymerization by assembling three actin monomers in cross-filament orientation and thereby promotes growth of actin filaments at the barbed end. Can also mediate actin depolymerization at barbed ends and severing of actin filaments. Promotes formation of cell ruffles. Regulates neuron morphogenesis and increases branching of axons and dendrites. Regulates dendrite branching in Purkinje cells.  
{ECO:0000269|PubMed:17956734, ECO:0000269|PubMed:23223303}.

Molecular Weight: 144.8 kDa Including tag.

UniProt: [Q5NBX1](#)

## Application Details

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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: 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.

## Application Details

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Restrictions: For Research Use only

## Handling

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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

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