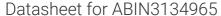
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Cullin 4A Protein (CUL4A) (AA 1-759) (His tag)





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Overview

Quantity:	1 mg
Target:	Cullin 4A (CUL4A)
Protein Characteristics:	AA 1-759
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cullin 4A protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

MADEGPRKGS VSALMGRTNG LTKPAALAGG PAKPGGTGGS RKLVIKNFRD RPRLPDNYTQ DTWRKLHEAV KAIQSSTSIR YNLEELYQAV ENLCSHKVSP TLYKQLRQVC EDHVQAQILP FREDSLDSVL FLKKINTCWQ DHCRQMIMIR SIFLFLDRTY VLQNSMLPSI WDMGLELFRN HIISDRMVQS KTIDGILLLI GRERSGEAVD RSLLRSLLSM LSDLQVYKDS FELKFLEETN CLYAAEGQRL MQDREVPEYL NHVSKRLEEE ADRVITYLDH STQKPLIACV EKQLLGEHLT AILQKGLEHL LDENRVPDLT QMYQLFSRVK GGQHALLQHW SEYIKTFGTT IVINPEKDKD MVQDLLDFKD KVDHVVEVCF QRNERFINLM KESFETFINK RPNKPAELIA KHVDSKLRAG NKEATDEELE RILDKIMILF RFIHGKDVFE AFYKKDLAKR LLVGKSASVD AEKSMLSKLK HECGAAFTSK LEGMFKDMEL SKDIMVHFKQ HMQNQSAPGP IDLTVNILTM GYWPTYTPME VHLPPEMVRL QEVFKTFYLG KHSGRKLQWQ TTLGHAVLKA DFKEGKKEFQ VSLFQTLVLL MFNEGDGFSF EEIKMATGIE DSELRRTLQS LACGKARVLI KSPKGKEVED GDKFIFNADF KHKLFRIKIN QIQMKETVEE QVSTTERVFQ DRQYQIDAAI VRIMKMRKTL GHNLLVSELY

NQLKFPVKPG DLKKRIESLI DRDYMERDKD SPNQYHYVA

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 Cul4a 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.
- 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.

Product Details Grade: Crystallography grade **Target Details** Target: Cullin 4A (CUL4A) Alternative Name Cul4a (CUL4A Products) Background: Core component of multiple cullin-RING-based E3 ubiquitin-protein ligase complexes which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. As a scaffold protein may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The E3 ubiquitin-protein ligase activity of the complex is dependent on the neddylation of the cullin subunit and is inhibited by the association of the deneddylated cullin subunit with TIP120A/CAND1. The functional specificity of the E3 ubiquitinprotein ligase complex depends on the variable substrate recognition component. DCX(DET1-COP1) directs ubiquitination of JUN. DCX(DDB2) directs ubiquitination of XPC. In association with RBX1, DDB1 and DDB2 is required for histone H3 and histone H4 ubiquitination in response to ultraviolet and may be important for subsequent DNA repair. DCX(DTL) plays a role in PCNAdependent polyubiquitination of CDT1 and MDM2-dependent ubiquitination of TP53 in response to radiation-induced DNA damage and during DNA replication. In association with DDB1 and SKP2 probably is involved in ubiquitination of CDKN1B/p27kip. Is involved in ubiquitination of HOXA9. DCX(DTL) directs autoubiquitination of DTL (By similarity). {ECO:0000250}. Molecular Weight: 88.7 kDa Including tag. UniProt: Q3TCH7 **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.

For Research Use only

Protein has not been tested for activity yet. In cases in which it is highly likely that the

options with you in detail to assure that you receive your protein of interest.

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

Comment:

Restrictions:

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

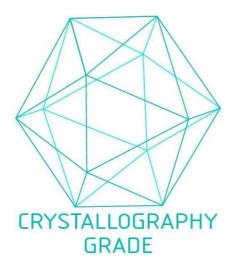


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process