

Datasheet for ABIN3136322

**CADPS2 Protein (AA 1-1297) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	CADPS2
Protein Characteristics:	AA 1-1297
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CADPS2 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	MLDPSSEEE SDEGLEEESR EVLVAPGVSQ RAPPAAAREG RRDAPGRSGG GSGGGAARPV SPSPSVLSEG RNEPELQLDE EQERRIRLQL YVFVVRICIY PFNAKQPTDM ARRQQKLNKQ QLQLLKERFQ AFLNGETQIV ADEAFCAVR SYVEVFLKSD RVARMVQSGG CSANDFREVF KKNIEKRVRS LPEIDGLSKE TVLSSWIAKY DAIYRGEEDL CKQPNRMTLS AVSELILSKE QLYEMFQQIL GIKKLEHQLL YNACQLDNAD EQAAQIRREL DGRLQLAEKM AKERRFPRFI SKEMESMYIE ELRASVNLLM ANLESLPVSK GGPEFKLQKL KRSQNSAFLD LGDENEIQLS KSDVLSFTL EIVIMEVQGL KSVAPNRIVY CTMEVEGGEK LQTDQAEASR PQWGTQGDFN TTHPRPVVKV KLFTTESTGVL ALEDKELGRV VLYPTSNSSK SAELHRMTVP KNSQSDSLKI KLAVRMDKPA HMKHSGYLYA LGQKVWKRWK KRYFVLVQVS QYTFAMCSYR EKKSEPQELM QLEGYTVDYT DPHPGLQGGQ VFFNAVKEGD TVIFASDDEQ DRILWWQAMY RATGQSYKPV PAVQSQKLNP KGGALHADAQ LYADRFQKHG MDEFISASPC KLDHAFLFRI LQRQTLDHRL NDSYSCLGW FSPGQVFVLDE YCARYGVRGC HRHLCYLTEL MEHSENGAVI DPTLLHYSFA
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FCASHVHG NR PDGIGTVSVE EKERFEEIKD RLSSLLENQI SHFRYCFPFG RPEGALKATL  
SLLERVLMKD IATPIAAEEV KKVVRKCLEK AALINYTRLT EYAKIEETMN QATPARKLEE  
VLHLAELCIE VLQQNEEHHA EGREAFWWP DLLAEHAEKF WALFTVDMDT ALEAQPQDSW  
DSFPLFQLLN NFLRNDTLLC NGKFHKHLQE IFVPLVVRYV DLMESAIQS IHRGFEQETW  
QPVKNIANSL PNVALPKVPS LPLNLPQIPS FSTPPWMASL YESTNGSTTS EDLFWKLDAL  
QMFVFDLHWP EQEFAHHLEQ RLKLMASDMI EACVKRTRTA FELKLQKANK TTDLRIPASV  
CTMFNVLVDA KKQSTKLCAL DGGQEQQYHS KIDDLIDNTV KEIALLVSK FVSVLEGVLS  
KLSRYDEGTF FSSILSFTVK AAAYVDVPK PGMDLADTYI MFVRQNQDIL REKVNEEMYI  
EKLFDQWYSN SMKVICVWLA DRLDLQLHIY QLKTLIKIVK KTYRDFRLQG VLEGTLSNKT  
YDTLHRRLLTV EEATASVSEG GGLQGITMKD SDEEEEG

**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 Cadps2 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:

1. In a first purification step, the protein is purified from the cleared cell lysate using three

## Product Details

- 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

Target:	CADPS2
Alternative Name:	Cadps2 ( <a href="#">CADPS2 Products</a> )
Background:	Calcium-binding protein involved in exocytosis of vesicles filled with neurotransmitters and neuropeptides. Probably acts upstream of fusion in the biogenesis or maintenance of mature secretory vesicles. Regulates neurotrophin release from granule cells leading to regulate cell differentiation and survival during cerebellar development. May specifically mediate the Ca(2+)-dependent exocytosis of large dense-core vesicles (DCVs) and other dense-core vesicles.
Molecular Weight:	148.8 kDa Including tag.
UniProt:	<a href="#">Q8BYR5</a>
Pathways:	<a href="#">Synaptic Vesicle Exocytosis</a>

## 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:	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