

Datasheet for ABIN3090646

CADPS2 Protein (AA 1-1296) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	CADPS2
Protein Characteristics:	AA 1-1296
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CADPS2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MLDPSSSEEE SDEGLEEESR DVLVAAGSSQ RAPPAPTREG RRDAPGRAGG GGAARSVSPS</p> <p>PSVLSEGRDE PQRQLDDEQE RRIRLQLYVF VVRCIAYPFN AKQPTDMARR QQKLNKQQLQ</p> <p>LLKERFQAFL NGETQIVADE AFCNAVRSYY EVFLKSDRVA RMVQSGGCSA NDFREVFKKN</p> <p>IEKRVRSLE IDGLSKETVL SSWIAKYDAI YRGEEDLCKQ PNMALSAVS ELILSKEQLY</p> <p>EMFQQILGIK KLEHQLLYNA CQLDNADEQA AQIRRELDGR LQLADKMAKE RKFPKFIKD</p> <p>MENMYIEELR SSVNLLMANL ESLPVSKGGP EFKLQKLKRS QNSAFLDIGD ENEIQLSKSD</p> <p>VVLSFTLEIV IMEVQGLKSV APNRIVYCTM EVEGEKLQTD QAEASRPQWG TQGDFTTTHP</p> <p>RPVVKVKLFT ESTGVLALED KELGRVILYP TSNSSKSAEL HRMVVPKNSQ DSDLKIKLAV</p> <p>RMDKPAHMKH SGYLYALGQK VWKRWKKRYF VLVQVSQYTF AMCSYREKKS EPQELMQLEG</p> <p>YTVDYTDPHP GLQGGCMFFN AVKEGDTVIF ASDDEQDRIL WVQAMYRATG QSYKPVPAIQ</p> <p>TQKLNPKGGT LHADAQLSGK DADRFQKHGM DEFISANPCK LDHAFLFRIL QRQTLDHRLN</p>

DSYSCLGWFS PGQVFLDEY CARYGVRGCH RHLCYLAELM EHENGAVID PTLLHYSFAF
CASHVHGNRP DGIGTVSVEE KERFEEIKER LSSLLENQIS HFRYCFPFGR PEGALKATLS
LLERVLMKDI ATPIPAEVK KVVRCLEKA ALINYTRLTE YAKIEETMNQ ASPARKLEEI
LHLAELCIEV LQQNEEHAE GREAFWWPD LLAHAKEFW ALFTVDMDTA LEAQPQDSWD
SFPLFQLLNN FLRNDTLLCN GKFHKLHLEI FVPLVVRVYD LMESSIAQSI HRGFEQETWQ
PVKNIANSPL NVALPKVPSL PLNLQPINL STASWMPSTY ESTNGSATSE DLFWKLDALQ
MFVFDLHWPE QEFAHHLEQR LKLMSDMLD ACVKRTRTAF ELKLQKASKT TDLRIPASVC
TMFNVLVDAK KQSTKLCLD GGQEQQYHSK IDDLIDNSVK EISLLVSKF VSVLEGVLSK
LSRYDEGTFF SSILSFTVKA AAKYVDVPPK GMDLADTYIM FVRQNQDILR EKVNEEMYIE
KLFDQWYSSS MKVICVWLT DRLDLQLHIYQ LKTLIKIVKK TYRDFRLQGV LEGTLNSKTY
DTVHRRLTVE EATASVSEGG GLQGITMKDS DEEEEG

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 try to ensure that you receive soluble 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system -

Product Details

all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	CADPS2
Alternative Name:	CADPS2 (CADPS2 Products)
Background:	Calcium-dependent secretion activator 2 (Calcium-dependent activator protein for secretion 2) (CAPS-2),FUNCTION: 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 (By similarity). {ECO:0000250}.
Molecular Weight:	147.7 kDa
UniProt:	Q86UW7
Pathways:	Synaptic Vesicle Exocytosis

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:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

Application Details

Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

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Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months