

Datasheet for ABIN3090357

CADPS Protein (AA 1-1353) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	CADPS
Protein Characteristics:	AA 1-1353
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CADPS protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MLDPSSEEE SDEIVVEESG KEVLGSAPSG ARLSPSRTSE GSAGSAGLGG GGAGAGAGVG AGGGGGSGAS SGGGAGGLQP SSRAGGGRPS SPSPSVSEK EKEELERLQK EEEERKKRLQ LYVFVMRCIA YPFNAKQPTD MARRQQKISK QQLQTVKDRF QAFLNGETQI MADEAFMNAV QSYIEVFLKS DRVARMVQSG GCSANDSREV FKKHIEKRVR SLPEIDGLSK ETVLSSWMAK FDAIYRGEED PRKQQARMTA SAASELILSK EQLYEMFQNI LGIKKFEHQL LYNACQLDNP DEQAAQIRRE LDGRLQMADQ IARERKFPKF VSKEMENMYI EELKSSVNLL MANLESMPVS KGGEFKLQKL KRSHNASIID MGEESENQLS KSDVVLFSFL EVVIMEVQGL KSLAPNRIVY CTMEVEGGEK LQTDQAEASK PTWGTQGDfs TTHALPAVKV KLFTTESTGVL ALEDKELGRV ILHPTPNSPK QSEWHKMTVS KNCPDQDLKI KLAVRMDKPQ NMKHSGYLWA IGKNVWKRWK KRFFVLVQVS QYTFAMCSYR EKKAEPQELL QLDGYTVDYT DPQPGLEGGR AFFNAVKEGD TVIFASDDEQ DRILWVQAMY RATGQSHKPV PPTQVQKLNA KGGNVPQLDA PISQFYADRA QKHGMDEFIS SNPCNFDHAS LFEMVQRLTL DHRLNDSYSC LGWFS PGQVF VLDEYCARNG
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VRGCHRHLCY LRDLLERAEN GAMIDPTLLH YSFAFCASHV HGNRPDGIGT VTVEEKERFE
EIKERLRVLL ENQITHFRYC PPFGRPEGAL KATLSLLERV LMKDIVTPVP QEEVKTVIRK
CLEQAALVNY SRLSEYAKIE ENQKDAENVG RLITPAKKLE DTIRLAELVI EVLQQNEEHH
AEPHVDKGEA FAWWSDLMVE HAETFLSLFA VDMAALEVQ PPDTWDSFPL FQLLNDFLRT
DYNLCNGKFH KHLQDLFAPL VVRYVDLMES SIAQSIHRGF ERESWEPVKS LTSNLPNVNL
PNVNLPKVPN LPVNIPLGIP QMPTFSAPSW MAAIYDADNG SGTSEDLFWK LDALQTFIRD
LHWPEEEFGK HLEQRLKLMA SDMIESCVKR TRIAFEVKLQ KTSRSTDFRV PQSICTMFNV
MVDAAQSTK LCSMEMGQEH QYHSKIDELI EETVKEMITL LVAKFVTILE GVLAKLSRYD
EGTLFSSFLS FTVKAASKYV DVPKPGMDVA DAYVTFVRHS QDVLDRDKVNE EMYIERLFDQ
WYNSSMNVIC TWLTDRMDLQ LHIYQLKTLI RMVKKTYRDF RLQGVLDSTL NSKTYETIRN
RLTVEEATAS VSEGGGLQGI SMKDSDEEDE EDD

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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

Product Details

produce something that functions like a cell, but without the constraints of a living system - 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 in several dilutions and is measured against its specific reference buffer.
 - We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	CADPS
Alternative Name:	CADPS (CADPS Products)
Background:	Calcium-dependent secretion activator 1 (Calcium-dependent activator protein for secretion 1) (CAPS-1),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 catecholamine loading of DCVs. May specifically mediate the Ca(2+)-dependent exocytosis of large dense-core vesicles (DCVs) and other dense-core vesicles by acting as a PtdIns(4,5)P2-binding protein that acts at prefusion step following ATP-dependent priming and participates in DCVs-membrane fusion. However, it may also participate in small clear synaptic vesicles (SVs) exocytosis and it is unclear whether its function is related to Ca(2+) triggering (By similarity). {ECO:0000250}.
Molecular Weight:	152.8 kDa

Target Details

UniProt:	Q9ULU8
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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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 - all that's needed is the DNA that codes for the desired protein!</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



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