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PLCH2 Protein (AA 1-1416) (Strep Tag)





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Overview

Quantity:	1 mg
Target:	PLCH2 (PLCh2)
Protein Characteristics:	AA 1-1416
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLCH2 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:

MSGPWPSPDS RTKGTVAWLA EVLLWVGGSV VLSSEWQLGP LVERCMGAMQ EGMQMVKLRG
GSKGLVRFYY LDEHRSCIRW RPSRKNEKAK ISIDSIQEVS EGRQSEVFQR YPDGSFDPNC
CFSIYHGSHR ESLDLVSTSS EVARTWVTGL RYLMAGISDE DSLARRQRTR DQWLKQTFDE
ADKNGDGSLS IGEVLQLLHK LNVNLPRQRV KQMFREADTD DHQGTLGFEE FCAFYKMMST
RRDLYLLMLT YSNHKDHLDA ASLQRFLQVE QKMAGVTLES CQDIIEQFEP CPENKSKGLL
GIDGFTNYTR SPAGDIFNPE HHHVHQDMTQ PLSHYFITSS HNTYLVGDQL MSQSRVDMYA
WVLQAGCRCV EVDCWDGPDG EPIVHHGYTL TSKILFKDVI ETINKYAFIK NEYPVILSIE
NHCSVIQQKK MAQYLTDILG DKLDLSSVSS EDATTLPSPQ MLKGKILVKG KKLPANISED
AEEGEVSDED SADEIDDDCK LLNGDASTNR KRVENTAKRK LDSLIKESKI RDCEDPNNFS
VSTLSPSGKL GRKSKAEEDV ESGEDAGASR RNGRLVVGSF SRRKKKGSKL KKAASVEEGD
EGQDSPGGQS RGATRQKKTM KLSRALSDLV KYTKSVATHD IEMEAASSWQ VSSFSETKAH
QILQQKPAQY LRFNQQQLSR IYPSSYRVDS SNYNPQPFWN AGCQMVALNY QSEGRMLQLN

RAKFSANGGC GYVLKPGCMC QGVFNPNSED PLPGQLKKQL VLRIISGQQL PKPRDSMLGD RGEIIDPFVE VEIIGLPVDC SREQTRVVDD NGFNPTWEET LVFMVHMPEI ALVRFLVWDH DPIGRDFIGQ RTLAFSSMMP GYRHVYLEGM EEASIFVHVA VSDISGKVKQ ALGLKGLFLR GPKPGSLDSH AAGRPPARPS VSQRILRRTA SAPTKSQKPG RRGFPELVLG TRDTGSKGVA DDVVPPGPGP APEAPAQEGP GSGSPRDTRP LSTQRPLPPL CSLETIAEEP APGPGPPPPA AVPTSSSQGR PPYPTGPGAN VASPLEDTEE PRDSRPRPCN GEGAGGAYER APGSQTDGRS QPRTLGHLPV IRRVKSEGQV PTEPLGGWRP LAAPFPAPAV YSDATGSDPL WQRLEPCGHR DSVSSSSMS SSDTVIDLSL PSLGLGRSRE NLAGAHMGRL PPRPHSASAA RPDLPPVTKS KSNPNLRATG QRPPIPDELQ PRSLAPRMAG LPFRPPWGCL SLVGVQDCPV AAKSKSLGDL TADDFAPSFE GGSRRLSHSL GLPGGTRRVS GPGVRRDTLT EQLRWLTVFQ QAGDITSPTS LGPAGEGVAG GPGFVRRSSS RSHSRVRAIA SRARQAQERQ QRLQGLGRQG PPEEERGTPE GACSVGHEGS VDAPAPSKGA LGPASAAAEN LVLLRL

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 posttranslational 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 - 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.
- 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:	PLCH2 (PLCh2)
Alternative Name:	PLCH2 (PLCh2 Products)
Background:	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase eta-2 (EC 3.1.4.11)
	(Phosphoinositide phospholipase C-eta-2) (Phosphoinositide phospholipase C-like 4) (PLC-L4)
	(Phospholipase C-like protein 4) (Phospholipase C-eta-2) (PLC-eta2),FUNCTION: The production
	of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3)
	is mediated by activated phosphatidylinositol-specific phospholipase C enzymes
	(PubMed:18361507). This phospholipase activity is very sensitive to calcium. May be important
	for formation and maintenance of the neuronal network in the postnatal brain (By similarity).
	{ECO:0000250 UniProtKB:A2AP18, ECO:0000269 PubMed:18361507}.
Molecular Weight:	154.7 kDa

Target Details UniProt: 075038 **Application Details** In addition to the applications listed above we expect the protein to work for functional studies Application Notes: 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 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 - all that's needed is the DNA that codes for the desired protein! 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.

-80 °C

Store at -80°C.

Avoid repeated freeze-thaw cycles.

Unlimited (if stored properly)

Handling Advice:

Storage Comment:

Storage:

Expiry Date:

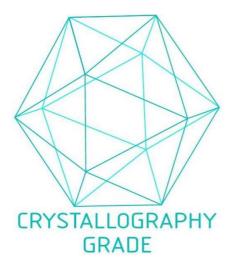


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process