

Datasheet for ABIN3094622

PLCL1 Protein (AA 1-1095) (Strep Tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	PLCL1
Protein Characteristics:	AA 1-1095
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLCL1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence: MAEGAAGRED PAPPDAAGGE DDP RVGPDAAGDCVTAASGG RMRDRRSGVA LPGAAGTPAD
SEAGLLEAAR ATPRRSSIIK DPSNQKCGGR KKTVSFSSMP SEKKISSAND CISFMQAGCE
LKKVRPNSRI YNRFFTLDTD LQALRWEPSK KDLEKAKLDI SAIKEIRLGK NTETFRNNGL
ADQICEDCAF SILHGENYES LDLVANSADV ANIWVSGRLRY LVSRKQPLD FMEGNQNTPR
FMWLKTVFEA ADV DNGIML EDTSVELIKQ LNPTLKEAKI RLKFKAIQKS KEKLTTRVTE
EEFCEAFCEL CTRPEVYFLL VQISKNKEYL DANDLMLFLE AEQGVTHITE DICLDIIRRY
ELSEEGRQKG FLAIDGFTQY LLSSECDIFD PEQKKVAQDM TQPLSHYYIN ASHNTYLIED
QFRGPADING YIRALKMGCR SVELDVSDGS DNEPILCNRN NMTTHVSFRS VIEVINKFAF
VASEYPLILC LGNHCSLPQQ KVMAQQMKKV FGNKLYTEAP LPSESYLPSP EKLKRMIIVK
GKKLPSPDPV LEGETDEDE EAEMSRMSV DYNGEQKQIR LCRELSDLVS ICKSVQYRDF
ELSMKSQNYW EMCSFSETEA SRIANEYPED FVNYNKKFLS RIYPSAMRID SSNLNPQDFW
NCGCQIVAMN FQTPGPMMDL HTGWFLQNGG CGYVLRPSIM RDEVSYFSAN TKGILPGVSP

LALHIKIISG QNFPPKPGAC AKGDVIDPYV CIEIHGIPAD CSEQRTKTVQ QNSDNPIFDE
TFEFQVNLPE LAMIRFVLD DDYIGDEFIG QYTIPFECLQ PGYRHWPLRS FVGDIMEHVT
LFVHIAITNR SGGGKAQKRS LSVRMGKKVR EYTMLRNIGL KTIDDIFKIA VHPLREADM
RENMQNAIVS IKELCGLPPI ASLKQCLLTL SSRITSDNT PSVSLVMKDS FPYLEPLGAI
PDVQKMLTA YDLMIQESRF LIEMADTVQE KIVQCQKAGM EFHEELHNLG AKEGLKGRKL
NKATESFAWN ITVLKGQGD LKNAKNEAIE NMKQIQLACL SCGLSKAPSS SAEAKSKRSL
EAIEEKESSE ENGKL

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 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:

Product Details

- 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®): <ol style="list-style-type: none">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)

Target Details

Target:	PLCL1
Alternative Name:	PLCL1 (PLCL1 Products)
Background:	Inactive phospholipase C-like protein 1 (PLC-L1) (Phospholipase C-deleted in lung carcinoma) (Phospholipase C-related but catalytically inactive protein) (PRIP),FUNCTION: Involved in an inositol phospholipid-based intracellular signaling cascade. Shows no PLC activity to phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol. Component in the phospho-dependent endocytosis process of GABA A receptor (By similarity). Regulates the turnover of receptors and thus contributes to the maintenance of GABA-mediated synaptic inhibition. Its aberrant expression could contribute to the genesis and progression of lung carcinoma. Acts as an inhibitor of PPP1C. {ECO:0000250, ECO:0000269 PubMed:17254016}.
Molecular Weight:	122.7 kDa
UniProt:	Q15111

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.
--------------------	--

Application Details

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)