Datasheet for ABIN3094641

PLD1 Protein (AA 1-1074) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	PLD1
Protein Characteristics:	AA 1-1074
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLD1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSLKNEPRVN TSALQKIAAD MSNIIENLDT RELHFEGEEV DYDVSPSDPK IQEVYIPFSA IYNTQGFKEP NIQTYLSGCP IKAQVLEVER FTSTTRVPSI NLYTIELTHG EFKWQVKRKF KHFQEFHREL LKYKAFIRIP IPTRRHTFRR QNVREEPREM PSLPRSSENM IREEQFLGRR KQLEDYLTKI LKMPMYRNYH ATTEFLDISQ LSFIHDLGPK GIEGMIMKRS GGHRIPGLNC CGQGRACYRW SKRWLIVKDS FLLYMKPDSG AIAFVLLVDK EFKIKVGKKE TETKYGIRID NLSRTLILKC NSYRHARWWG GAIEEFIQKH GTNFLKDHRF GSYAAIQENA LAKWYVNAKG YFEDVANAME EANEEIFITD WWLSPEIFLK RPVVEGNRWR LDCILKRKAQ QGVRIFIMLY KEVELALGIN SEYTKRTLMR LHPNIKVMRH PDHVSSTVYL WAHHEKLVII DQSVAFVGGI DLAYGRWDDN EHRLTDVGSV KRVTSGPSLG SLPPAAMESM ESLRLKDKNE PVQNLPIQKS IDDVDSKLKG IGKPRKFSKF SLYKQLHRHH LHDADSISSI DSTSSYFNHY RSHHNLIHGL KPHFKLFHPS SESEQGLTRP HADTGSIRSL QTGVGELHGE TRFWHGKDYC NFVFKDWVQL

DKPFADFIDR YSTPRMPWHD IASAVHGKAA RDVARHFIQR WNFTKIMKSK YRSLSYPFLL PKSQTTAHEL RYQVPGSVHA NVQLLRSAAD WSAGIKYHEE SIHAAYVHVI ENSRHYIYIE NQFFISCADD KVVFNKIGDA IAQRILKAHR ENQKYRVYVV IPLLPGFEGD ISTGGGNALQ AIMHFNYRTM CRGENSILGQ LKAELGNQWI NYISFCGLRT HAELEGNLVT ELIYVHSKLL IADDNTVIIG SANINDRSML GKRDSEMAVI VQDTETVPSV MDGKEYQAGR FARGLRLQCF RVVLGYLDDP SEDIQDPVSD KFFKEVWVST AARNATIYDK VFRCLPNDEV HNLIQLRDFI NKPVLAKEDP IRAEEELKKI RGFLVQFPFY FLSEESLLPS VGTKEAIVPM EVWT

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 - 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.

Product Details

	• 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:	PLD1
Alternative Name:	PLD1 (PLD1 Products)
Background:	Phospholipase D1 (PLD 1) (hPLD1) (EC 3.1.4.4) (Choline phosphatase 1) (Phosphatidylcholine-hydrolyzing phospholipase D1),FUNCTION: Function as phospholipase selective for phosphatidylcholine (PubMed:8530346, PubMed:9582313, PubMed:25936805). Implicated as a critical step in numerous cellular pathways, including signal transduction, membrane trafficking, and the regulation of mitosis. May be involved in the regulation of perinuclear intravesicular membrane traffic (By similarity). {ECO:0000250|UniProtKB:Q9Z280, ECO:0000269|PubMed:25936805, ECO:0000269|PubMed:8530346, ECO:0000269|PubMed:9582313}.
Molecular Weight:	124.2 kDa
UniProt:	Q13393

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 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

Application Details

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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