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# Datasheet for ABIN3126729 PLCD1 Protein (AA 1-756) (His tag)

Image



#### Overview

Quantity:	1 mg
Target:	PLCD1
Protein Characteristics:	AA 1-756
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLCD1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

### Product Details

Sequence:	MDSGRDFLTL HGLQDDPDLQ ALLKGSQLLK VKSSSWRRER FYKLQEDCKT IWQESRKVMR
	SPESQLFSIE DIQEVRMGHR TEGLEKFARD IPEDRCFSIV FKDQRNTLDL IAPSPADVQH
	WVQGLRKIID RSGSMDQRQK LQHWIHSCLR KADKNKDNKM NFKEVKDFLK ELNVQVDDSY
	ARKIFRECDH SQTDSLEDEE IETFYRMLTQ RAEIDRAFAE AAGSAETLSV EKLVTFLQHQ
	QREEEAGPAL ALSLIERYEP SETAKAQRQM TKDGFLMYLL SADGNAFSLA HRRVYQDMNQ
	PLSHYLVSSS HNTYLLEDQL TGPSSTEAYI RALCKGCRCL ELDCWDGPNQ EPIIYHGYTF
	TSKILFCDVL RAIRDYAFKA SPYPVILSLE NHCSLEQQRV MAHHLRAILG PMLLDQPLDG
	VTTSLPSPEQ LKEKILLKGK KLGGLLPAGG ENGPEATDVS DEDEAAEMED EAVRSQVQHK
	PKEDKLKLVP ELSDMVIYCK SVHFGGFSSP STSGQAFYEM ASFSESRALR LLQESGNSFV
	RHNVGHLSRI YPAGWRTDSS NYSPVEMWNG GCQIVALNFQ TPGPEMDVYL GCFQDNGGCG
	YVLKPAFLRD PDTTFNSRAL TQGPWWAPKK LRVWIISGQQ LPKVNKNKNS IVDPKVIVEI
	HGVGQDVASR QTAVITNNGF NPRWDTEFEF VVAVPDLALV RFMVEDYDSS SKNDFIGQST

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	IPWNSLKQGY RHVHLLSKNG DLHPSATLFV KISIQD
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Plcd1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	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.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	<ol> <li>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.</li> </ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.

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### Product Details

Grade:

Crystallography grade

## Target Details

Target:	PLCD1
Alternative Name:	Plcd1 (PLCD1 Products)
Background:	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. Essential for trophoblast and placental development. {ECO:0000269 PubMed:16314520}.
Molecular Weight:	86.8 kDa Including tag.
UniProt:	Q8R3B1
Pathways:	WNT Signaling, Myometrial Relaxation and Contraction, Regulation of Carbohydrate Metabolic Process
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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

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Handling
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Expiry Date:

Unlimited (if stored properly)

#### Images



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

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