

Datasheet for ABIN7564658

PLCD4 Protein (AA 1-807) (His tag)



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Overview

Quantity:	1 mg
Target:	PLCD4
Protein Characteristics:	AA 1-807
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLCD4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Plcd4 Protein expressed in mammalian cells.
Sequence:	MTSQIQDLLA TDQDLLMQE GTMMRKVRTK SWKKLRYFRL QNDGMTVWHG SQPESMPKPT FSISDVERIR KGQDSELLRY LVEEFPLEQG FTVVFHGRPP NLDLVANSVE EAQIWMRGLQ LLVDLVASMD HQEQMDQMLN EWFQQADRNP DGRMSFREAQ RLLLLMNVEM DEEYAFSLFQ EADVTQSDDL GSEEFVQFYK ALTKRTEIEE IFEDFSSDKQ KLTLLFVDF LRKEQKEKDH APDLALELID RYEPSENGRL LHVLSKDGFL KYLCSKDGNI FNSDCLPIYQ DMTQPLSHYY INSSHNTYLV GDQLCGQSSV EGYIRALKRG CRCVEVDTWD GPDGEPVYH GHTLTSRILF KDVLATLAQY AFQSSDYPLI LSLENHCTWE QQRTMAHHLT EILGEQLLRN TLEGLLVDSM PSPEQLRGKI LVKGKKLRTI EVDKEEEEEEE EEEEELEKDEG PDLDPASPEL DTQPQPETQG QAAGNKKERK KKVMKCPMSC LLICGHVMAQ APSSIPESIL LSKQFLLLSS TTIMCPDLA LVVYLRTVPF CSFTHSKENY HIYDISSFSE SKAKNLIKEA GNEFVQHNR QLCRVYPSGL RTDSSNFPQ EHWNVGCQMV AMNMQTAGSA MDICDGLFRQ NGGSGYVLKP EFLRDTQSSF NPERPISLYK AQILVVQVIS GQQLPKVDKT KETTVDPLV KVELYGPED TKEQETSHVE

Product Details

NNGINPYWGE TFYFRLQVPE LAMLRVVKD YSRKSRNNFI GQYTLPWTCM KQGYRHSVLL
SRDGTSLNPA SIFVYTCMQE DLDMDPEP **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: PLCD4

Alternative Name: Plcd4 ([PLCD4 Products](#))

Background: 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-4 (EC 3.1.4.11) (Phosphoinositide phospholipase C-delta-4) (Phospholipase C-delta-4) (PLC-delta-4),FUNCTION: Hydrolyzes the phosphatidylinositol 4,5-bisphosphate (PIP2) to generate 2 second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3). DAG mediates the activation of protein kinase C (PKC), while IP3 releases Ca(2+) from intracellular stores. Required for acrosome reaction in sperm during fertilization, probably by acting as an important enzyme for intracellular Ca(2+) mobilization in the zona pellucida-induced acrosome

Target Details

	reaction. May play a role in cell growth. Modulates the liver regeneration in cooperation with nuclear PKC. Overexpression up-regulates the Erk signaling pathway and proliferation. {ECO:0000269 PubMed:11340203, ECO:0000269 PubMed:12695499, ECO:0000269 PubMed:16998201}.
Molecular Weight:	92.7 kDa
UniProt:	Q8K3R3
Pathways:	Inositol Metabolic Process

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months