

Datasheet for ABIN7554958
PLCD4 Protein (AA 1-762) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	PLCD4
Protein Characteristics:	AA 1-762
Origin:	Human
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:	<p>MASLLQDQLT TDQDLLLMQE GMPMRKVRSK SWKKLRYFRL QNDGMTVWHA RQARGSAKPS</p> <p>FSISDVETIR NGHDSSELLRS LAEELPLEQG FTIVFHGRRS NDLHMANSVE EAQIWMRGLQ</p> <p>LLVDLVTSMD HQERLDQWLS DWFQRGDKNQ DGKMSFQEVQ RLLHLMNVEM DQEYAFSLFQ</p> <p>AADTSQSGTL EGEEFVQFYK ALTKRAEVQE LFESFSADGQ KLTLLFLDF LQEEQKERDC</p> <p>TSELALELID RYEPDSGKL RHVLSMDGFL SYLCSKDGI FNPACLPYQ DMTQPLNHYF</p> <p>ICSSHNTYLV GDQLCGQSSV EGYIRALKRG CRCVEVDVWD GPSGEPVYH GHTLTSRILF</p> <p>KDVVATVAQY AFQTSQDYPVI LSLETHCSWE QQQTMARHLT EILGEQLLST TLDGVLPTQL</p> <p>PSPEELRRKI LVKGKKLTLE EDLEYEEEEA EPELEESELA LESQFETEPE PQEQNLQNKD</p> <p>KKKKSKPILC PALSSSLVIYL KSVSFRSFTH SKEHYHFYEI SSFSETKAKR LIKEAGNEFV</p> <p>QHNTWQLSRV YPSGLRTDSS NYNPQELWNA GCQMVAMNMQ TAGLEMDICD GHFRQNGGCG</p> <p>YVLKPDFLRD IQSSFHPEKP ISPFKAQTLL IQVISGQQLP KVDKTKEGSI VDPLVKVQIF</p> <p>GVRLDTARQE TNYVENNGFN PYWGQTL CFR VLVPELAMLR FVMDYDWKS RNDFIGQYTL</p>

Product Details

PWTCMQQGYR HIHLLSKDGI SLRPASIFVY ICIQEGLEGD ES **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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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:	<p>1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-4 (hPLCD4) (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</p>

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:15140260}., FUNCTION: [Isoform 2]: Acts as a non-receptor guanine nucleotide exchange factor which binds to and activates guanine nucleotide-binding protein (G-protein) alpha subunit GNAI3. {ECO:0000269|PubMed:30194280}.

Molecular Weight: 87.6 kDa

UniProt: [Q9BRC7](#)

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