1-Phosphatidylinositol 4,5-Bisphosphate Phosphodiesterase Delta-3 (PLCD3) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3 (PLCD3), Recombinant Protein
Full Product Name	Recombinant Human 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3 (PLCD3)
Product Gene Name	PLCD3 recombinant protein
Product Synonym Gene Name	PLCD3
Sequence	MLCGRWRRCR RPPEEPPVAA QVAAQVAAPV ALPSPPTPSD GGTKRPGLRA LKKMGLTEDE DVRAMLRGSR LRKIRSRTWH KERLYRLQED GLSVWFQRRI PRAPSQHIFF VQHIEAVREG HQSEGLRRFG GAFAPARCLT IAFKGRRKNL DLAAPTAEEA QRWVRGLTKL RARLDAMSQR ERLDHWIHSY LHRADSNQDS KMSFKEIKSL LRMVNVDMND MYAYLLFKEC DHSNNDRLEG AEIEEFLRRL LKRPELEEIF HQYSGEDRVL SAPELLEFLE DQGEEGATLA RAQQLIQTYE LNETAKQHEL MTLDGFMMYL LSPEGAALDN THTCVFQDMN QPLAHYFISS SHNTYLTDSQ IGGPSSTEAY VRAFAQGCRC VELDCWEGPG GEPVIYHGHT LTSKILFRDV VQAVRDHAFT LSPYPVILSL ENHCGLEQQA AMARHLCTIL GDMLVTQALD SPNPEELPSP EQLKGRVLVK GKKLPAARSE DGRALSDREE EEEDDEEEEE EVEAAAQRRL AKQISPELSA LAVYCHATRL RTLHPAPNAP QPCQVSSLSE RKAKKLIREA GNSFVRHNAR QLTRVYPLGL RMNSANYSPQ EMWNSGCQLV ALNFQTPGYE MDLNAGRFLV NGQCGYVLKP ACLRQPDSTF DPEYPGPPRT TLSIQVLTAQ QLPKLNAEKP HSIVDPLVRI EIHGVPADCA RQETDYVLNN GFNPRWGQTL QFQLRAPELA LVRFVVEDYD ATSPNDFVGQ FTLPLSSLKQ GYRHIHLLSK DGASLSPATL FIQIRIQRS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	89,258 Da
Sequence Positions	1-789aa; Full Length
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	608795
3D Structure	ModBase 3D Structure for Q8N3E9
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PLCD3 recombinant protein	This gene encodes a member of the phospholipase C family, which catalyze the hydrolysis of phosphatidylinositol 4,5-bisphosphate to generate the second messengers diacylglycerol and inositol 1,4,5-trisphosphate (IP3). Diacylglycerol and IP3 mediate a variety of cellular responses to extracellular stimuli by inducing protein kinase C and increasing cytosolic Ca(2+) concentrations. This enzyme localizes to the plasma membrane and requires calcium for activation. Its activity is inhibited by spermine, sphingosine, and several phospholipids.
Other Notes	Small volumes of PLCD3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for PLCD3 purchase	MBS1423933 is a recombinant protein targeting PLCD3. Also known as Recombinant Human 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3 (PLCD3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLCD3. It may not necessarily be applicable to this product.

NCBI GI #	19115964
NCBI GeneID	113026
NCBI Accession #	NP_588614.1
UniProt Primary Accession #	Q8N3E9
UniProt Secondary Accession #	Q8TEC1; Q8TF37; Q96FL6
UniProt Related Accession #	Q8N3E9
GenBank Nucleotide #	NM_133373.4
NCBI Official Full Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3
NCBI Official Synonym Full Names	phospholipase C delta 3
NCBI Official Symbol	PLCD3
NCBI Official Synonym Symbols	PLC-delta-3
UniProt Protein Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3
UniProt Synonym Protein Names	Phosphoinositide phospholipase C-delta-3; Phospholipase C-delta-3; PLC-delta-3
Protein Family	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase
UniProt Gene Name	PLCD3
UniProt Synonym Gene Names	KIAA1964; PLC-delta-3
NCBI Protein Information	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3
UniProt Comments for PLCD3	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 Ca2+ from intracellular stores. Essential for trophoblast and placental development. May participate in cytokinesis by hydrolyzing PIP2 at the cleavage furrow.
Research Articles on PLCD3	**1.** PLCdelta3 regulates microvilli formation in enterocytes and the radial migration of neurons in the cerebral cortex of the developing brain. [review]
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