

# 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3 (PLCD3) Recombinant Protein | PLCD3 recombinant protein

Recombinant Human 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3 (PLCD3)

CATALOG #  
AAA117383

HOST  
E Coli or Yeast or Baculovirus or Mammalian Cell

## PRODUCT SYNONYMS

1-phosphatidylinositol 4; 5-bisphosphate phosphodiesterase delta-3 (PLCD3); Recombinant Human 1-phosphatidylinositol 4; PLCD3 recombinant protein

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sequence Positions      | 1-789aa; Full Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sequence                | MLCGRWRRRCR RPPEEPPVAA QVAAQVAAPV ALPSPTPSD GGTKRPGLRA LKKMGLTEDE DVRAMLRGSR<br>LRKIRSRTWH KERLYRLQED GLSVWFQRRR PRAPSQHIFV VQHIEAVREG HQSEGLRRFG GAFAPARCLT<br>IAFKGRRKNL DLAAPTAEAA QRWVRGLTKL RARLDAMSQR ERLDHWIHSY LHRADSNQDS KMSFKEIKSL<br>LRMVNVDMND MYAYLLFKEC DHSNDRLEG AEIEEFLRRL LKRPELEEIF HQYSGEDRVL SAPELLEFLE<br>DQGEEGATLA RAQQLIQTYE LNETAKQHEL MTLDGFM MYL LSPEGAALDN THTCVFQDMN QPLAHYFISS<br>SHNTYLTDSQ IGGPSSTEAY VRAFAQGCRC VELDCWEGPG GEPVIYHGH TSKILFRDV VQAVRDHAFT<br>LSPYPVILSL ENHCGLEQQA AMARHLCTIL GDMLVTQALD SPNPEELPSP EQLKGRVLVK GKKLPAARSE<br>DGRALSDREE EEEDDEEEEEE EVEAAQRRRL AKQISPELSA LAVYCHATRL RTLHPAPNAP QPCQVSSLSE<br>RKAKKLIREA GNSFVRHNAR QLTRVYPLGL RMNSANYSPQ EMWNSGCQLV ALNFQTPGYE MDLNAGRFLV<br>NGQCGYVLKP ACLRQPDSTF DPEYPGPPTT TSLIQVLT AQQLPKLNAEKP HSIVDPLVRI EIHGVPADCA<br>RQETDYVLNN GFNPRWGQTL QFQLRAPELA LVRFVVEDYD ATSPNDFVGQ FTLPLSSLKQ GYRHIHLLSK<br>DGASLSPATL FIQIRIQRS |
| Species                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## ADDITIONAL INFORMATION

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| 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 <sup>2+</sup> concentrations. This enzyme localizes to the plasma membrane and requires calcium for activation. Its activity is inhibited by spermine, sphingosine, and several phospholipids. |
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## NCBI AND UNIPROT INFORMATION

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|---------------------------|--------------------------------|
| NCBI GI #                 | 19115964                       |
| NCBI GeneID               | 113026                         |
| NCBI Accession #          | NP_588614.1                    |
| NCBI GenBank Nucleotide # | NM_133373.4                    |
| UniProt Accession #       | Q8N3E9; Q8TEC1; Q8TF37; Q96FL6 |

|                                  |                                                                   |
|----------------------------------|-------------------------------------------------------------------|
| Molecular Weight                 | 89,258 Da                                                         |
| 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                                                       |
| NCBI Protein Information         | 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3 |
| UniProt Protein Name             | 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3 |
| UniProt Gene Name                | <b>PLCD3</b>                                                      |
| UniProt Synonym Gene Names       | KIAA1964; PLC-delta-3                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/plcd3-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/117383>