



# Recombinant Mouse 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3 (Plcd3)

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| <b>Product Code</b>      | CSB-EP818337MO  |
| <b>Abbreviation</b>      | Plcd3   |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.  |
| <b>Uniprot No.</b>       | Q8K2J0  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Mus musculus (Mouse)  |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | MLCGGWKRSR RSPEESRVSA QVAAPLAFPP SPASSDSSTK RPGLRALKKM<br>GLTEDEDVQA MLRGSRLKI RSRTWHKERL YRLQEDGLSV WFQRRIPRAA<br>SKHIFFVQHI EAVREGHQSE GLRRFGGAFACACCLTIAFK GRRKNLDLAA<br>PTAEEAQRWV RGLAKLRARL DAMSQRERLD HWIHSYLHRA DSDQDSKMSF<br>KEIKSLLRMV NVDMMNDMYAY RLFKECDHSN NERLEGAEIE AFLRRLKRP<br>ELEEIFRRYS GEDRVLSASE LLEFLEDQGE DGATLACAQQ LIQTYELNET<br>AKQHELMTLD GFMMYLLSPE GAALNVAHTC VFQDMGQPLA HYFISSSHNT<br>YLTDSQIGGT SSTEAYIRAF AQCRCVELD CWEGPGGEPV IYHGHTLTSK<br>ILFRDVIQAV RDHAFTSSPY PVILSLENHC GLEQQAVMAR HLRSILGDML<br>VTQALDSQNP EELPSPEQLK GRILVKGKKL PAARSEDGRI LSDREEEEE<br>EEEEEEALEA AEQRSRAKQI SPELSALAVY CCATRLRTLDPSPGPPQSCT<br>VGSLSERKAR KFTREAGTSF VRHNTQQLTR VYPLGLRMNS<br>ANYNPQEMWN SGCQLVALNF QTPGYEMDLN TGRFLINGQC GYVLKPAYLR<br>QLNTTFDPEC PGPPRTTLAI QVLTAQQLPK LNAEKPSIV DPLVRVEIHG<br>VPEDCAQKET DYVLNNGFNP CWEQTLQFRL RAPELVVRF VVEDYDTTSP<br>NDFVGQSTLP LSSLKQGYRH IHLLSKDGAS LAPATLFVHI RIQNS |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | Plcd3   |
| <b>Protein Names</b>     | Recommended name: 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-3 EC= 3.1.4.11 Alternative name(s): Phosphoinositide phospholipase C-delta-3 Phospholipase C-delta-3 Short name= PLC-delta-3  |
| <b>Expression Region</b> | 1-785   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | full length protein   |
| <b>Target Details</b>    | 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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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