



# Recombinant Mouse 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-1 (Plcd1)

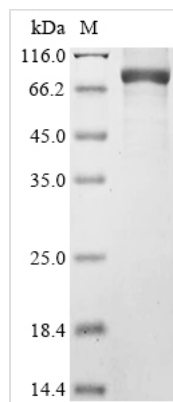
<b>Product Code</b>	CSB-BP854509MO
<b>Abbreviation</b>	Recombinant Mouse Plcd1 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q8R3B1
<b>Form</b>	Liquid or Lyophilized powder
<b>Storage Buffer</b>	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	<p> MDSGRDFLT LHGLQDDPDLQALLKGSQLLKVKSSSWRRERFYKLQEDCKTIW  QESRKVMRSPESQLFSIEDIQEVRMGHRTEGLEKFARDIPEDRCFSIVFKDQR  NTLDLIAPSPADVQHWVQGLRKIIDRSGSMDQRQKLQHWIHSCLRKADKNKD  NKMNFKEVKDFLKELVQVDDSYARKIFRECDHSQTDSLEDEEIETFYRMLTQ  RAEIDRAFAEAAGSAETLSVEKLVTFLLQHQREEEAGPALALSLIERYEPSETA  KAQRQMTKDGFLMYLLSADGNAFSLAHRVYQDMNQPLSHYLVSSSHNTYLL  EDQLTGPSSTEAYIRALCKGCRCLDCWDGPNQEPIYHGYTFTSKILFCDVL  RAIRDYAFKASPYPVILSLENHCSLEQQRVMMAHHLRAILGPMMLDQPLDGVTTS  LPSPEQLKEKILLKGKKLGGLLPAGGENGPEATDVSEDEAAEMEDEAVRSQV  QHHPKEDKLLVPELSDMVIYCKSVHFGGFSSPSTSGQAFYEMASFSESRLR  LLQESGNSFVRHNVGHLRSRIYPAGWRTDSSNYSPEMWNNGGCQIVALNFQTP  GPEMDVYLGCQDNGGCGYVLKPAFLRDPDTTFNSRALTQGPWWAPKKLRV  WIISGQQLPKVNKNKNSIVDPKVVIEIHGVGQDVASRQTAVITNNGFNPRWDTE  FEFVVAVPDLALVRFMVEDYDSSSKNDFIGQSTIPWNSLKQGYRHHVHLLSKNG  DLHPSATLFFVKISIQD </p>
<b>Research Area</b>	Signal Transduction
<b>Source</b>	Baculovirus
<b>Target Names</b>	Plcd1
<b>Expression Region</b>	1-756aa
<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>	C-terminal 6xHis-tagged



**Mol. Weight** 91.5 kDa

**Protein Length** Full Length

**Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

The recombinant mouse 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-1 (Plcd1) is produced using a baculovirus expression system. The transfer plasmid contains the full-length mouse Plcd1 protein, spanning amino acids 1 to 756, along with a C-terminal 6xHis-tag for purification. Insect cells are co-transfected with a mixture of the transfer plasmid and baculovirus DNA construct, facilitating the generation of the recombinant baculovirus particles. After that, infecting insect cells with the recombinant baculovirus carrying the Plcd1 expression construct. The infected cells then produce and accumulate the recombinant Plcd1 protein. The purified recombinant Plcd1 protein exhibits a purity of up to 85%, as determined by SDS-PAGE analysis. On the gel, the Plcd1 protein migrates as a band with an approximate molecular weight of 92 kDa.

Plcd1 is involved in various cellular processes, including intracellular calcium signaling, regulation of ion channels, and modulation of the protein kinase C (PKC) signaling pathway. By regulating the levels of IP3 and DAG, Plcd1 contributes to the dynamic control of cellular responses, such as gene expression, cytoskeletal rearrangement, and cell proliferation.

## 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.

## Shelf Life

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