

Product datasheet for **TP518890**

Plcd4 (NM_148937) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse phospholipase C, delta 4 (Plcd4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR218890 representing NM_148937
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MTSQQDILLATDQDLLLLMQEGTMMRKVRTKSWKKLRYFRLQNDGMTVWHGSQPESMPKPTFSISDVERIR
KGQDSELLRYLVEEFPLEQGFTVVFHGRRPNLDLVANSVEEAQIWMRGLQLLVDLVASMDHQEQMDQMLN
EWFQQADRNDQGRMSFREAQRLLLLMNEMDEEYAFSLFQEADVTQSDDLGSEEFVQFYKALTKRTEIEE
IFEDFSSDKQKLTLEFVDFLRKEQKEKDHPDLALELIDRYEPESENGRLLHVLVSKDGLKYLCSKDGNI
FNSDCLPIYQDMTQPLSHYYINSSHNTYLVGDQLCGQSSVEGYIRALKRGCRCVEVDTWDGPDGEPVYH
GHTLTSRILFKDVLATLAQYAFQSSDYPLILSLENHCTWEQQRTMAHHLTEILGEQLLRNTLEGLLVDSM
PSPEQLRGKILVKGKKLRTIEVDKEEEEEEEEELEKDEGPDLDPASPELDTQPQPETQGQAAGNKKERK
KKVMKCPMSCLLICHVMAQAPSSIPESILLSKQFLLSSTTIMCPDLSALVYLRTVPFCSTHSEKENV
HIYDISSFESKAKNLIKEAGNEFVQHNRQLCRVYPSGLRTDSSNFPQEHWNVGCQMVAMNMQTAGSA
MDICDGLFRQNGGSGYVLKPEFLRDTQSSFNPERPISLYKAQILVWQVISGQQLPKVDKTKETTVDPLV
KVELYGVPEDTKEQETSHVENNGINPYWGETFYFRLQVPELAMLRVFKDYSRKSRRNFIGQYTLPWTCM
KQGYRHVSLLSRDGTSLNPASIFVYTCMQEDLDMDEP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	92.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_683739
Locus ID:	18802
UniProt ID:	Q8K3R3
RefSeq Size:	2981
Cytogenetics:	1 38.54 cM
RefSeq ORF:	2421
Synonyms:	4921507K24Rik
Summary:	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 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.[UniProtKB/Swiss-Prot Function]