

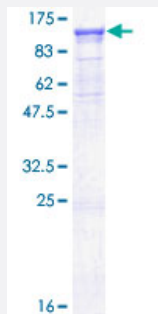
Full-Length

PLCD4 (Human) Recombinant Protein (P02)

Catalog # H00084812-P02

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human PLCD4 full-length ORF (NP_116115.1, 1 a.a. - 762 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MASLLQDQLTTDQDLLLMQEGMPMRKVRKSWKKLRYFRLQNDGMTVWHARQARGSAKPSFSI
SDVETIRNGHDSSELLRSLAEELPLEQGFTVVFHGRRSNLDLMANSVEEAQWMRGLQLLVDLVTS
MDHQERLDQWLSDWFQRGDKNQDGKMSFQEVQRLHLMNVEMDQEYAFSLFQAADTSQSGT
LEGEEFVQFYKALTKRAEVQELFESFSADGQKLTLLEFLDFLQEEQKERDCTSELALELIDRYEPS
DSGKLRHVLSMDGFLSYLCSKDGDIENPACLPYQDMTQPLNHYFICSSHNTYLVGDQLCGQSSV
EGYRALKRGCRCEVDVWDGPSGEPVVYHGHTLTSRILFKDVVATVAQYAFQTSYDYPVILSLETH
CSWEQQQTMARHLTEILGEQLLSTTLDGVLPTQLPSPEELRRKILVKGKKLTLEEDLEYEEEEAEPE
ELEESLALESQFETEPPEPQEQNLQNKDKKKKSKPILCPALSSLVMLKSVSFRSFTHSKEHYHFY
EISSFSETKAKRLIKEAGNEFVQHNTWQLSRVYPSGLRTDSSNYPQELWNAGCQMVAMNMQTA
GLEMDICDGHFRQNGGCGYVLKPDFLRDIQSSFHPEKPISPFKAQTLTIQVISGQQLPKVDKTEG
SMDPLVKVQIFGVRLDTARQETNYVENNGFNYPWGQTLCFRVLVPELAMLRFFVMDYDWKSRN
DFIGQYTLPWTCMQQGYRHHLLSKDGISLRPASIFVYICIQEGLEGDES

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

114

Interspecies Antigen Sequence

Mouse (73); Rat (73)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PLCD4

Entrez GeneID	84812
GeneBank Accession#	NM_032726.2
Protein Accession#	NP_116115.1
Gene Name	PLCD4
Gene Alias	MGC12837
Gene Description	phospholipase C, delta 4
Omim ID	605939
Gene Ontology	Hyperlink
Gene Summary	Phosphatidylinositol-specific phospholipase C (PLC) plays an important role in receptor-mediated signal transduction by generating 2 second messenger molecules, inositol 1,4,5-triphosphate (IP3) and diacylglycerol, from phosphatidylinositol 4,5-bisphosphate (PIP2). PLC comprises a diverse family of enzymes that differ in structure and tissue distribution (Berridge, 1993 [PubMed 8381210]).[supplied by OMIM]
Other Designations	PLC delta4

Pathway

- [Calcium signaling pathway](#)
- [Inositol phosphate metabolism](#)
- [Metabolic pathways](#)
- [Phosphatidylinositol signaling system](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Mental Disorders](#)