

Recombinant Human PLCD4 Protein (1-762 aa), His-SUMO-tagged

Cat. No. PLCD4-1123H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLCD4 Protein (1-762 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Full Length.
Species	Human
Source	E.coli
ProteinLength	1-762 aa
Description	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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	103.6 kDa
AA Sequence	MASLLQDQLTTDQDLLLLMQEGMPMRKVRKSWKKLRYFRLQNDGMTVWHARQAR

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GSAKPSFSISDVETIRNGHDSELLRSLAEELPLEQGFTIVFHGRRSNLDMANSVEEA
 QIWMRGLQLLVDLVTSMDHQERLDQWLSDWFQRGDKNQDGKMSFQEVQRLLHLM
 NVEMDQEYAFSLFQAADTSQSGTLEGEFVQFYKALTKRAEVQELFESFSADGQKL
 TLLEFLDFLQEEQKERDCTSELALELIDRYEPSDSGKLRHVLSMDGFLSYLCSKDGDI
 FNPACLPIYQDMTQPLNHYFICSSHNTYLVGDQLCGQSSVEGYIRALKRGCRCEVD
 VWDGSPSGEPVVYHGHTLTSRILFKDVVATVAQYAFQTSDYPVILSLETHCSWEQQQ
 TMARHLTEILGEQLLSTTLDGVLPTQLPSPEELRRKILVKGKKTLEEDLEYEEEEAEP
 ELEESELALESQFETEPEPQEQLQNKDKKKKSKPILCPALSSLVIYLKSVSFRSFTH
 SKEHYHFYEISSFSETKAKRLIKEAGNEFVQHNTWQLSRVYPSGLRTDSSNYPQEL
 WNAGCQMAMNMQTAGLEMDICDGHFRQNGGCGYVLKPDFLRDIQSSFHPEKPIS
 PFKAQTLIQVISGQQLPKVDKTEGSIVDPLVKVQIFGVRLDTARQETNYVENNGFN
 PYWGQTLCFRVLVPELAMLRVVMYDWDKSRNDFIGQYTLPWTCMQQGYRHIHLL
 SKDGISLRPASIFVYICIQEGLEGDES

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage 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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

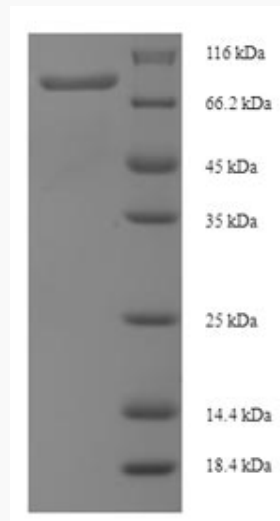
Gene Name [PLCD4 phospholipase C, delta 4 \[Homo sapiens \]](#)

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Official Symbol	PLCD4
Synonyms	PLCD4; PLC delta4; MGC12837;
Gene ID	84812
mRNA Refseq	NM_032726
Protein Refseq	NP_116115
MIM	605939
UniProt ID	Q9BRC7



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

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