

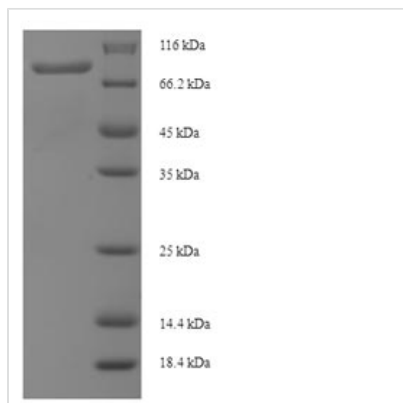


Recombinant Human 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-4 (PLCD4)

Product Code	CSB-EP866264HU
Relevance	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.
Abbreviation	Recombinant Human PLCD4 protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9BRC7
Alias	Phosphoinositide phospholipase C-delta-4; Phospholipase C-delta-4 ; PLC-delta-4
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MASLLQDQLTTDQDLLLMQEGMPMRKVRKSWKKLRYFRLQNDGMTVWHA RQARGSAKPSFSISDVETIRNGHDSSELLRSLAEELPLEQGFTIVFHGRRSNLDL MANSVEEAQIWMRGLQLLVDLVTSMDHQRERLDQWLSDFQRGDKNQDGKM SFQEVQRLLHLMNVEMDQEYAFSLFQAADTSQSGTLEGEFVQFYKALTKRA EVQELFESFSADGQKLTLLFDFLQEEQKERDCTSELALELIDRYEPSDSGKL RHVLSMDGFLSYLCSKDGDFINPACLPIYQDMTQPLNHYFICSSHNTYLVGDQ LCGQSSVEGYIRALKRGCRCVEVDVWDGSPGEPVVYHGHTLTSRILFKDVVA TVAQYAFQTSDYPVILSLETHCSWEQQQTMARHLTEILGEQLLSTTLDGVLPT QLPSPEELRRKILVKGKLTLEEDLEYEEEEAEPELEESELALESQFETEPEPQ EQNLQNKDKKKKSKPILCPALSSLVIYLKSVSFRSFTHSKEHYHFYEISSFSETK AKRLIKEAGNEFVQHNTWQLSRVYPSGLRTDSSNYPQELWNAGCQMVAMN MQTAGLEMDICDGHFRQNGGCGYVLKPDFLRDIQSSFHPEKPIPFKAQTLII QVISGQQLPKVDKTKESIVDPLVKVQIFGVRLDTARQETNYVENNGFNYPYWG QTLCFRVLVPELAMLRFFVMDYDWKSRNDFIGQYTLPWTCMQQGYRHHLLS KDGISLRPASIFVYICIQEGLEGDES
Research Area	Signal Transduction
Source	E.coli
Target Names	PLCD4



Expression Region	1-762aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	103.6kDa
Protein Length	Full Length

Image

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

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

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.