

Recombinant Full Length Human PLCB1 Protein, C-Flag-tagged

Cat. No. PLCB1-1803HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PLCB1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of many extracellular signals. This gene is activated by two G-protein alpha subunits, alpha-q and alpha-11. Two transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	138.4 kDa
AA Sequence	MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWDDSTIVTPIILRTDPQGFFFYWTDQ NKETELLDLSLVK DARCGRHAKAPKDPKLRELLDVGNIGRLEQRMITVVYGPDLVNI SHLNLVAFQEEVAKEWTNEVFSLATN LLAQNMSRDAFLEKAYTKLKLQVTPEGRIPL KNIYRLFSADRKRVETALEACSLPSSRNDSIPQEDFTPE VYRVFLNNLCPRPEIDNIF SEFGAKSKPYLTVDQMMDFINLKQRDPRLNEILYPPLKQEQVQVLEIKYEP NNSLAR KGQISVDGFMRYLSGEENGVSPEKLDLNEDMSQPLSHYFINSSHNTYLTAGQLAG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

NSSVEMYR QVLLSGCRCVELDCWKGRТААЕЕРVITHGFTMTTEISFKEVIEAIAECA
 FKTSPFPILLSFENHVDSPKQ QAKMAEYCRLIFGDALLMEPLEKYPLESGVPLPSPM
 DLMYKILVKNKKKSHKSSEGGSGKKKLSEQASNTY SDSSSMFEPSSPGAGEADTESD
 DDDDDDDCKKSSMDEGTAGSEAMATEEMSNLVNYIQPVKFESFEISKK RNKSFEM
 SSFVETKGLEQLTKSPVEFVEYNKMQLSRIYPKGTRVDSSNYMPQLFWNAGCQMV
 ALNFQTMД LAMQINMGMYEYNGKSGYRLKPEFMRRPDKHDFPFTEGIVDGIVANTL
 SVKIISGQFLSDKKVGTYVEVD MFGLPVDTRRKAFKTKTSQGNVNPVWEEEPVFK
 KVVLPТLACLRІAVYEEGGKFIGHRILPVQAIRPG YHYICLRNERNQPLTLPVVFYIE
 VKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLEDEEEVKK EADPGETPSEA
 PSEARTTPAENGVNHTTTLTPKPPSQALHSQPAPGSVKAPAKTEDLIQSVLTEVEAQ
 TI EELKQQKSFVKLQKKHYKEMKDLVKRHHKTTDLIKEHTTKYNEIQNDYLRRRAA
 LEKSAKKDSKKKSEP SSPDHGSSTIEQDLAALDAEMTQKLIDLKDKQQQQLNLRQ
 EQYYSEKYQKREHIKLLIQKLTDAEECQ NNQLKKLKEICEKEKKELKKKMDKKRQE
 KITEAKSKDKSQMEEEEKTEMIRSIIQEVVQYIKRLEEASKR QEKLVEKHKEIRQQIL
 DEKPKLQVELEQEYQDKFKRLPLEILEFVQEAMKGKISED SNHGSAPLSLSSDP GKV
 NHKTPSSEELGGDIPGKEFDTPL TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome

Protein Pathways Alzheimer's disease, Calcium signaling pathway, Chemokine signaling pathway, Gap junction, GnRH signaling pathway, Huntington's disease, Inositol phosphate metabolism, Long-term depression, Long-term potentiation, Melanogenesis, Metabolic pathways, Phosphatidylinositol signaling system, Vascular smooth muscle contraction, Wnt signaling pathway

Full Length Full L.

GENE INFORMATION

Gene Name PLCB1 phospholipase C beta 1 [Homo sapiens (human)]

Official Symbol PLCB1

Synonyms DEE12; PLC-I; EIEE12; PI-PLC; PLC154; PLCB1A; PLCB1B; PLC-154; PLC-beta-1

Gene ID 23236

mRNA Refseq NM_015192.4

Protein Refseq NP_056007.1

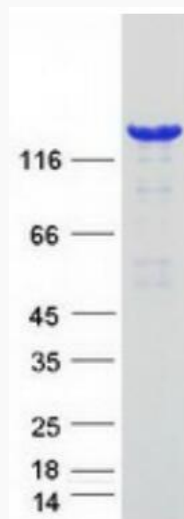
MIM 607120

UniProt ID Q9NQ66

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Coomassie blue staining of purified PLCB1 protein.

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