

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

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NSSVEMYR QVLLSGCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIECA
 FKTSPFPILLSFENHVDSPKQ QAKMAEYCRLIFGDALLMEPLEKYPLESGVPLPSPM
 DLMYKILVKNKKKSHKSSEGGSGKKKLSEQASNTY SDSSSMFEPSSPGAGEADTESD
 DDDDDDDCKKSSMDEGTAGSEAMATEEMSNLVNYIQPVKFESFEISKK RNKSFEM
 SSFVETKGLEQLTKSPVEFVEYNKMQLSRIYPKGTRVDSSNYMPQLFWNAGCQMV
 ALNFQTM D LAMQINMGMYEYNGKSGYRLKPEFMRRPDKHDFPFTEGIVDGIVANTL
 SVKIISGQFLSDKKVGTYVEVD MFGLPVDTRRKAFKTKTSQGNVNPVWEEEPVFK
 KVVLP L TLA CLRIAVYEEGGKFIGHRILPVQAIRPG YHYICLRNERNQPLTLPVVFYIE
 VKDYVPD TYADVIEALSNPIRYVNLMEQRAKQLAALTLEDEEEVKK EADPGETPSEA
 PSEARTTPAENG VNH TTT LTPKPPSQALHSQPAPGSVKAPAKTEDLIQSVL TEVEAQ
 TI EELKQQKSFVKLQKKHYKEMKDLVKRHHKTTDLIKEHTTKYNEIQNDYLRRRAA
 LEKSAKKDSKKKSEP SSPDHGSSTIEQDLAALDAEMTQKLIDLKDKQQQQLNLRQ
 EQYYSEKYQKREHIKLLIQKLTDAEECQ NNQLKKLKEICEKEKKELKKKMDKKRQE
 KITEAKSKDKSQMEEEEKTEMIRSYIQEVVQYIKRLEEAQSKR QEKLVEKHKEIRQQIL
 DEKPKLQVELEQEYQDKFKRLPLEILEFVQEAMKGKISEDSNHGSAPLSLSSDP GKV
 NHKTPSSEELGGDIPGKEFD TPL 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

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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](#)

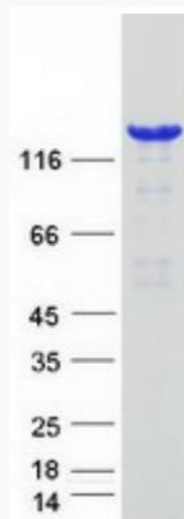
MIM [607120](#)

UniProt ID [Q9NQ66](#)

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Coomassie blue staining of purified PLCB1 protein.

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