

Recombinant Full Length Human PLCG1 Protein, C-Flag-tagged

Cat. No. PLCG1-94HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PLCG1 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 receptor-mediated tyrosine kinase activators. For example, when activated by SRC, the encoded protein causes the Ras guanine nucleotide exchange factor RasGRP1 to translocate to the Golgi, where it activates Ras. Also, this protein has been shown to be a major substrate for heparin-binding growth factor 1 (acidic fibroblast growth factor)-activated tyrosine kinase. 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	148.5 kDa
AA Sequence	MAGAASPCANGCGPGAPSDAEVLHLCRSLEVGTVMTLFYSKKSQRPERKTFQVKL ETRQITWSRGADKIE GAIDIREIKEIRPGKTSRDFDRYQEDPAFRPDQSHCFVILYGM EFRLKTLQLQATSEDEVNMWIKGLTWL MEDTLQAPTPLQIERWLRKQFYSDVRNRE

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DRISAKDLKNMLSQVNYRVPMRFLRERLTDLEQRSGDITY GQFAQLYRSLMYSAQ
 KTMDLPFLEASTLRAGERPELCRVSLPEFQQFLLDYQGELWAVDRLQVQEFMLSF L
 RDPLREIEEPYFFLDEFVTFLFSKENS VWNSQLDAVCPDTMNNPLSHYWISSSHNTY
 LTGDQFSSESSL EAYARCLRMGCRCIELDCWDGPDGMPVIYHGHTLTTKIKFSDVL
 HTIKEHAFVASEYPVILSIEDHCSIA QQRNMAQYFKKVLGDTLLTKPVEISADGLPSP
 NQLKRKILIKHKKLAEGSAYEEVPTSM MYSENDISNSI KNGILYLEDPVNHEWYPHYF
 VLTSSKIYYSEETSSDQGNEDDEEPKEVSSSTELHSNEKWFHGKLGAGRD GRHIAE
 RLLTEYCIETGAPDGSFLVRESETFVGDYTLSFWRNGKVQHCRVHSRQDAGTPKFF
 LTDNLVFD SLYDLITHYQQVPLRCNEFEMRLSEPVPQTNAHESKEWYHASLTRAQA
 EHMLMRVPRDGAFLVRKRNEPN SYAISFRAEGKIKHCRVQQEGQTVMLGNSEFDS
 LVDLISYYEKHPLYRKMKLRYPINEEALEKIGTAEPD YGALYEGRNPGFYVEANPMP
 TFKCAVKALFDYKAQREDELTFKSAIQNVEKQEGGWWRGDYGGKKQLW FPSNY
 VEEMVNPVALEPEREHLDEN SPLGDLLRGVLDVPACQIAIRPEGKNNRLFVFSISMA
 SVAHWSLD VAADSQEELQDWVKKIREVAQTADARLTEGKIMERRKKIALELSELVYV
 CRPVPFDEEKIGTERACYRDM SSFPETKAEKYVNKAKGKKFLQYNRLQLSRIYPKG
 QRLDSSNYDPLPMWICGSQ LVALNFQTPDKPMQMN QALFMTGRHCGYVLQPST
 RDEAFDPFDKSSRLGLEPCAISIEVLGARHLPKNRGIVCPFVEIEVAGAE YDSTKQ
 KTEFVVDNGLNPVWPAKPFHFQISNPEFAFLRFVVEEDMFSDQNFLAQATFPVKG
 LKTGYRAV PLKNNYSEDLELASLLIKIDIFPAKQENGDLSPFSGTSLRERGS DASGQL
 FHGRAREGSFESRYQQPFED
 FRISQEHLDHFDSRERRAPRRTRVNGDNRLTRTRPLEQKLISEEDLAANDILDYKD
 DDDKV

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	Calcium signaling pathway, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Glioma, Inositol phosphate metabolism, Leukocyte transendothelial migration, Metabolic pathways, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pathways in cancer, Phosphatidylinositol signaling system, T cell receptor signaling pathway, VEGF signaling pathway, Vibrio cholerae infection
Full Length	Full L.
GENE INFORMATION	
Gene Name	PLCG1 phospholipase C gamma 1 [Homo sapiens (human)]
Official Symbol	PLCG1
Synonyms	PLC1; NCKAP3; PLC-II; PLC148; PLCgamma1
Gene ID	5335
mRNA Refseq	NM_002660.3
Protein Refseq	NP_002651.2

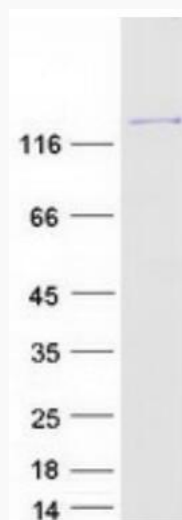
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MIM	172420
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UniProt ID	P19174
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Coomassie blue staining of purified PLCG1 protein.

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