

Recombinant Human PLCG1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PLCG1-2145H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PLCG1 MS Standard C13 and N15-labeled recombinant protein (NP_002651) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	148.5 kDa
AA Sequence	MAGAASPCANGCGPGAPSDAEVLHLCSLEVGTVMTLFYSKKSQRPERKTFQVKL ETRQITWSRGADKIEGAIDIREIKEIRPGKTSRDFDRYQEDPAFRPDQSHCFVILYGM EFRLKTLSQLATSEDEVNMWIKGLTWLMEDTLQAPTPLQIERWLRKQFYSDVRNRE DRISAKDLKNMLSQVNYRVNMRFLRERLTDLEQRSGDITYGQFAQLYRSLMYSAQ

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KTMDLPFLEASTLRAGERPELCRVSLPEFQQFLLDYQGELWAVDRLQVQEFMLSFL
RDPLREIEEPYFFLDEFVTFLFSKENS VWNSQLDAVCPDTMNNPLSHYWISSSHNTY
LTGDQFSSESSLEAYARCLRMGCRCIELDCWDGPDGMPVIYHGHTLTTKIKFSDVLH
TIKEHAFVASEYPVILSIEDHCSIAQQRNMAQYFKKVLGDTLLTKPVEISADGLPSPNQ
LKRKILIKHKKLAEGSAYEEVPTSM MYSENDISNSIKNGILYLEDPVNHEWYPHYFVLT
SSKIYYSEETSSDQGNEDDEEPEKEVSSSTELHSNEKW FHGKLGAGRDGRHIAERLL
TEYCIETGAPDGSFLVRESETFVG DYTL SFWRNGKVQHCRVHSRQDAGTPKFFLTD
NLVFDSL YDLITHYQQVPLRCNEFEMRLSEPVPQTNAHESKEWYHASLTRAQAEHM
LMRVPRDGAFLVRKRNEPNSY AISFRAEGKIKHCRVQQEGQTVMLGNSEFDSLVDLI
SYYEKHPLYRKMKLRYPINEEAL EKIGTAEPDYGALYEGRNPGFYVEANPMPTFKCA
VKALFDYKAQREDELTFKSAIQNVEKQEGGWWRGDYGGKKQLWFPSNYVEEMV
NPVALEPEREHLDEN SPLGDLLRGVLDVPACQIAIRPEGKNNRLFVSISMASVAHW
SLDVAADSQEELQDWVKKIREVAQTADARLTEGKIMERRKKIALELSELVVYCRPVP
FDEEKIGTERACYRDMSSFPETKAEKYVNKAKGKKFLQYNRLQLSRIYPKGQRLDSS
NYDPLPMWICGSQ LVALNFQTPDKPMQMNQALFMTGRHCGYVLQPSTMRDEAFD
PFDKSSSLRGLEPCAISIEVLGARHLPKNGRGIVCPFVEIEVAGAEYDSTKQKTEFVVD
NGLNPVWPAKPFHFQISNPEFAFLRFVVYEEDMFSDQNFLAQATFPVKGLKTGYRA
VPLKNNYSEDL ELASLLIKIDIFPAKQENGDLSPFSGTSLRERGS DASGQLFHGRARE
GSFESRYQQPFEDFRISQEHLADHFDSRERRAPRRTRVNGDNRLTRTRPLEQKLIS
EEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA

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Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [PLCG1 phospholipase C gamma 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [PLCG1](#)

Synonyms PLCG1; phospholipase C, gamma 1; phospholipase C, gamma 1 (formerly subtype 148), PLC1; 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-1; NCKAP3; PLC II; PLC148; PLCgamma1; PLC-148; PLC-gamma-1; phospholipase C-II; phospholipase C-148; phosphoinositidase C; phospholipase C-gamma-1; inositoltrisphosphohydrolase; phosphoinositide phospholipase C; phosphatidylinositol phospholipase C; triphosphoinositide phosphodiesterase; phosphoinositide phospholipase C-gamma-1; monophosphatidylinositol phosphodiesterase; 1-phosphatidyl-D-myo-inositol-4,5-bisphosphate; phospholipase C, gamma 1 (formerly subtype 148); 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma 1; PLC1; PLC-II;

Gene ID [5335](#)

mRNA Refseq [NM_002660](#)

Protein Refseq [NP_002651](#)

MIM [172420](#)

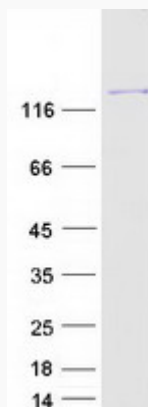
UniProt ID [P19174](#)

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SDS-PAGE



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