Recombinant Human PLCG1, MYC/DDK-tagged

Cat. No. PLCG1-17H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLCG1, fused with C-terminal MYC/DDK, 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
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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GENE INFORMATION

Gene Name	PLCG1 phospholipase C, gamma 1 [Homo sapiens]
Official Symbol	PLCG1
Synonyms	PLCG1; PLC1; NCKAP3; PLC-II; PLC148; PLCgamma1; phospholipase C, gamma 1; 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-1; 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; 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-1; NP_002651.2; EC 3.1.4.11
Gene ID	5335
mRNA Refseq	NM_002660
Protein Refseq	NP_002651
MIM	172420
UniProt ID	P19174
Chromosome Location	20q12-q13.1

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Pathway	Adaptive Immune System; Antiviral mechanism by IFN-stimulated genes; Calcium signaling pathway
Function	calcium ion binding; glutamate receptor binding; phosphatidylinositol phospholipase C activity

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