Recombinant Human PLCG1

Cat. No. PLCG1-30735TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 1192-1291 of Human Phospholipase C gamma 1 with proprietary tag; Predicted MWt 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
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 Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.31% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	LKNNYSEDLELASLLIKIDIFPAKQENGDLSPFSGTSLRERGSDASGQLFHGRAREGS FESRYQQPFEDFRISQEHLADHFDSRERRAPRRTRVNGDNRL
Sequence Similarities	Contains 1 C2 domain.Contains 1 EF-hand domain.Contains 2 PH domains.Contains 1 PI-PLC X-box domain.Contains 1 PI-PLC Y-box domain.Contains 2 SH2 domains.Contains 1 SH3 domain.

GENE INFORMATION

Gene Name	PLCG1 phospholipase C, gamma 1 [Homo sapiens]
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;
Gene ID	5335
mRNA Refseq	NM_002660
Protein Refseq	NP_002651
MIM	172420
Uniprot ID	P19174

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Chromosome Location	20q12-q13.1
Pathway	Adaptive Immune System, organism-specific biosystem; Axon guidance, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem;
Function	calcium ion binding; hydrolase activity; phosphatidylinositol phospholipase C activity; phosphatidylinositol phospholipase C activity; protein binding;

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