

Recombinant Human PLCG2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PLCG2-1750H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PLCG2 MS Standard C13 and N15-labeled recombinant protein (NP_002652) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a transmembrane signaling enzyme that catalyzes the conversion of 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate to 1D-myo-inositol 1,4,5-trisphosphate (IP3) and diacylglycerol (DAG) using calcium as a cofactor. IP3 and DAG are second messenger molecules important for transmitting signals from growth factor receptors and immune system receptors across the cell membrane. Mutations in this gene have been found in autoinflammation, antibody deficiency, and immune dysregulation syndrome and familial cold autoinflammatory syndrome 3.
Molecular Mass	147.9 kDa
AA Sequence	MSTTVNVDSLAEYEKSQIKRALELGTVMTVFSFRKSTPERRTVQVIMETRQVAWSKT ADKIEGFLDIMEIKEIRPGKNSKDFERAKAVRQKEDCCFTILYGTQFVLSTLSLAADSK EDAVNWLSGLKILHQEAMNASTPTIIESWLRKQIYSVDQTRRNSISLRELKTILPLINFK VSSAKFLKDKFVEIGA HKDEL SFEQFHLFYKKLMFEQQKSILDEFKKDSSVFILGNTD RPDASAVYLRDFQRFLIHEQQEHWAQDLNKVRERMTKFIDDTMRETAEPFLFVDEF

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LTYLFSRENSIWDEKYDAVDMQDMNPLSHYWISSSHNTYLTGDQLRSESSPEAYI
 RCLRMGCRCIELDCWDGPDGKPVYHGWTRTTKIKFDDVVQAIKDHAFTVSSFPVIL
 SIEEHCSVEQQRHMAKAFKEVFGDLLLTKEPTASADQLPSPSQLREKIIKHKKLGPR
 GDVDVNMEDKKDEHKQQGELYMWDSIDQKWTRHYCAIADAKLSFSDDIEQTMEEE
 VPQDIPPTELHFGEKWFHKKVEKRTSAEKLLQEYCMETGGKDGFTLVRESETFPND
 YTLFSWRSRGRVQHCRIRSTMEGGTLKYLLTDNLTFSSYALIQHYRETHLRCAEFELR
 LTDPVNPNPHEKSPWYYDSLRSRGEAEDMLMRIPRDGAFLIRKREGSDSYAITFRAR
 GKVKHCRINRDGRHFVLGTSAYFESLVELVSYYEKHSLYRKMRLRYPVTPPELLERYN
 MERDINSLYDVSRMYVDPSEINPSMPQRTVKALYDYKAKRSDELSFCRGALIHNVSK
 EPGGWWKGDYGTIRIQYFPSNYVEDISTADFEELKQIIEDNPLGSLCRGILDNLNTY
 NVVKAPQGKNQKSFVFILEPKQQGYPPVEFATDRVEELFEWFQSIREITWKIDTKEN
 NMKYWEKNQSIKIELSDLVYCKPTSKTKDNLENPDFREIRSFVETKADSIIRQKQVD
 LLKYNQKGLTRVYPKGQRVDSSNYDPFRLWLCSQMVALNFQTADKYMQMNHAF
 SLNGRTGYVLQPESMRTEKYDPMPPESQRKILMTLTVKVLGARHLPKLGRSIACPFV
 EVEICGAEYDNNKFKTTVVNDNGLSPIWAPTQEKVTFEIYDPNLAFLRFVVEEDMF
 SDPNFLAHATYPIKAVKSGFRSVPLKNGYSEDIELASLLVFCEMRPVLESEELYSSC
 RQLRRRQEELNNQLFLYDTHQNLNRNANRDALVKEFSVNENQLQLYQEKCNKRLRE
 KRVSNSKFYSTRTPLQKLISEEDLAANDILDYKDDDDKV

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

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GENE INFORMATION

Gene Name PLCG2 phospholipase C gamma 2 [Homo sapiens (human)]

Official Symbol [PLCG2](#)

Synonyms PLCG2; phospholipase C, gamma 2 (phosphatidylinositol-specific); 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-2; PLC-IV; PLC-gamma-2; phospholipase C-IV; phosphoinositide phospholipase C-gamma-2; FCAS3;

Gene ID [5336](#)

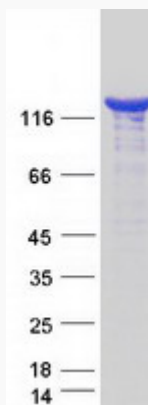
mRNA Refseq [NM_002661](#)

Protein Refseq [NP_002652](#)

MIM [600220](#)

UniProt ID [P16885](#)

SDS-PAGE



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