

Recombinant Human PLCG2 protein, His & T7-tagged

Cat. No. PLCG2-1018H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLCG2 aa. (Leu930~Thr1152 (Accession # P16885) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Leu930~Thr1152
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29.3kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 7.8.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	PLCG2 phospholipase C gamma 2 [Homo sapiens (human)]
Official Symbol	PLCG2
Synonyms	PLCG2; phospholipase C gamma 2; FCAS3; APLAID; PLC-IV; PLC-gamma-2; 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-2; phosphoinositide phospholipase C-gamma-2; phospholipase C, gamma 2 (phosphatidylinositol-specific); phospholipase C-IV
Gene ID	5336

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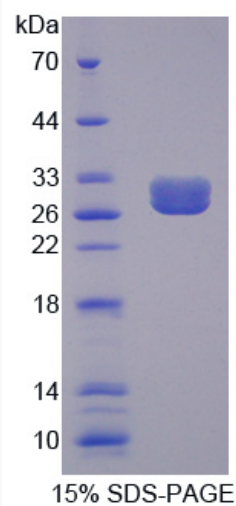
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mRNA Refseq NM_002661.4

Protein Refseq NP_002652.2

UniProt ID P16885

SDS-PAGE



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