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PLCG1 Blocking Peptide (Center)

Synthetic peptide
Catalog # BP21541c

Specification

PLCG1 Blocking Peptide (Center) - Product Information

Primary Accession P19174

PLCG1 Blocking Peptide (Center) - Additional Information

Gene ID 5335

Other Names
1-phosphatidylinositol 4, 5-bisphosphate phosphodiesterase gamma-1, PLC-148, Phosphoinositide phospholipase C-gamma-1, Phospholipase C-II, PLC-II, Phospholipase C-gamma-1, PLC-gamma-1, PLCG1, PLC1

Target/Specificity
The synthetic peptide sequence is selected from aa 758-770 of HUMAN PLCG1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PLCG1 Blocking Peptide (Center) - Protein Information

Name PLCG1 (HGNC:9065)

Synonyms PLC1

Function

PLCG1 Blocking Peptide (Center) - Background

Mediates the production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3). Plays an important role in the regulation of intracellular signaling cascades. Becomes activated in response to ligand- mediated activation of receptor-type tyrosine kinases, such as PDGFRA, PDGFRB, FGFR1, FGFR2, FGFR3 and FGFR4. Plays a role in actin reorganization and cell migration.

PLCG1 Blocking Peptide (Center) - References

Burgess W.H.,et al.Mol. Cell. Biol. 10:4770-4777(1990).
Deloukas P.,et al.Nature 414:865-871(2001).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Mohammadi M.,et al.Mol. Cell. Biol. 11:5068-5078(1991).
Park D.J.,et al.J. Biol. Chem. 267:1496-1501(1992).

Mediates the production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3). Plays an important role in the regulation of intracellular signaling cascades. Becomes activated in response to ligand-mediated activation of receptor-type tyrosine kinases, such as PDGFRA, PDGFRB, EGFR, FGFR1, FGFR2, FGFR3 and FGFR4 (By similarity). Plays a role in actin reorganization and cell migration (PubMed:17229814).

Cellular Location
Cell projection, lamellipodium. Cell projection, ruffle. Note=Rapidly redistributed to ruffles and lamellipodia structures in response to epidermal growth factor (EGF) treatment.

PLCG1 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides