

PLCG1 Blocking Peptide (Center)

Synthetic peptide Catalog # BP21509c

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 456-468 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

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). Guanine nucleotide exchange factor that binds the GTPase DNM1 and catalyzes the dissociation of GDP, allowing a GTP molecule to bind in its place, therefore enhancing DNM1-dependent endocytosis (By similarity).

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

PLCG1 Blocking Peptide (Center) - Images

PLCG1 Blocking Peptide (Center) - Background

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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).