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PLA2G4F Blocking Peptide (Center)

Synthetic peptide
Catalog # BP22037c

Specification

PLA2G4F Blocking Peptide (Center) - Product Information

Primary Accession Q68DD2

PLA2G4F Blocking Peptide (Center) - Additional Information

Gene ID 255189

Other Names
Cytosolic phospholipase A2 zeta, cPLA2-zeta, 3.1.1.4, Phospholipase A2 group IVF, PLA2G4F

Target/Specificity
The synthetic peptide sequence is selected from aa 319-331 of HUMAN PLA2G4F

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.

PLA2G4F Blocking Peptide (Center) - Protein Information

Name PLA2G4F

Function
Has calcium-dependent phospholipase and lysophospholipase activities with a potential role in membrane lipid remodeling and biosynthesis of lipid mediators (PubMed:29158256). Preferentially hydrolyzes the ester bond of the fatty acyl group attached at sn-2 position of phospholipids (phospholipase A2 activity) (PubMed:29158256). Selectively hydrolyzes sn-2 arachidonoyl group from membrane phospholipids, providing the precursor for eicosanoid biosynthesis (PubMed:29158256). In myocardial mitochondria, plays a major role in arachidonate release that is metabolically channeled to the formation of cardioprotective eicosanoids, epoxyeicosatrienoates (EETs) (PubMed:29158256).

Cellular Location
Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q50L41}. Cell membrane {ECO:0000250|UniProtKB:Q50L41}; Peripheral membrane protein. Mitochondrion

Tissue Location
Expressed in myocardium (at protein level).

PLA2G4F Blocking Peptide (Center) - Protocols

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

- Blocking Peptides

PLA2G4F Blocking Peptide (Center) - Images

PLA2G4F Blocking Peptide (Center) - Background

Calcium-dependent phospholipase A2 that selectively hydrolyzes glycerophospholipids in the sn-2 position. Has higher enzyme activity for phosphatidylethanolamine than phosphatidylcholine (By similarity).

PLA2G4F Blocking Peptide (Center) - References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:671-675(2006).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).