

PLA2G4F Blocking Peptide (Center)
Synthetic peptide
Catalog # BP22037c**Specification**

PLA2G4F Blocking Peptide (Center) - Product InformationPrimary 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).