10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PLA2G4D Blocking Peptide (C-Term)

Synthetic peptide
Catalog # BP21807b

Specification

PLA2G4D Blocking Peptide (C-Term) - Product Information

Primary Accession Q86XP0

PLA2G4D Blocking Peptide (C-Term) - Additional Information

Gene ID 283748

Other Names
Cytosolic phospholipase A2 delta, cPLA2-delta, Phospholipase A2 group IVD, PLA2G4D

Target/Specificity
The synthetic peptide sequence is selected from aa 774-786 of HUMAN PLA2G4D

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.

PLA2G4D Blocking Peptide (C-Term) - Protein Information

Name PLA2G4D (HGNC:30038)

Function
Calcium-dependent phospholipase A2 that selectively hydrolyzes glycerophospholipids in the sn-2 position (PubMed:14709560). Has a preference for linoleic acid at the sn-2 position (PubMed:14709560).

Cellular Location
Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q50L43}. Membrane {ECO:0000250|UniProtKB:Q50L43}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q50L43}; Cytoplasmic side {ECO:0000250|UniProtKB:Q50L43}. Note=Translocates to perinuclear membranes that may correspond to endoplasmic reticulum or Golgi in a calcium-dependent fashion. {ECO:0000250|UniProtKB:Q50L43}

Tissue Location
Expressed in stratified squamous epithelia, such as those in skin and cervix, but not in other tissues (PubMed:14709560) Strongly expressed in the upper spinous layer of the psoriatic

epidermis, expressed weakly and discontinuously in atopic dermatitis and mycosis fungoides, and not detected in the epidermis of normal skin (PubMed:14709560).

PLA2G4D Blocking Peptide (C-Term) - Protocols

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

- Blocking Peptides

PLA2G4D Blocking Peptide (C-Term) - Images

PLA2G4D Blocking Peptide (C-Term) - Background

Calcium-dependent phospholipase A2 that selectively hydrolyzes glycerophospholipids in the sn-2 position. Not arachidonic acid-specific but has linoleic acid-specific activity. May play a role in inflammation in psoriatic lesions.

PLA2G4D Blocking Peptide (C-Term) - References

Chiba H.,et al.J. Biol. Chem. 279:12890-12897(2004).
Zody M.C.,et al.Nature 440:671-675(2006).
Tao R.,et al.Prostaglandins Leukot. Essent. Fatty Acids 73:419-422(2005).