PLSCR3 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	PLSCR3, Blocking Peptide
Full Product Name	PLSCR3 Peptide - N-terminal region
Product Gene Name	PLSCR3 blocking peptide
Sequence	Synthetic peptide located within the following region: PPKGYAPSPP PPYPVTPGYP EPALHPGPGQ APVPAQVPAP APGFALFPSP
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	PLSCR3 peptide (MBS3246677) is used for blocking the activity of PLSCR3 antibody (MBS3221960)
Molecular Weight	32 kDa
OMIM	607611
Product Categories/Family for PLSCR3 blocking peptide	Peptide
Related Product Information for PLSCR3 blocking peptide	This is a synthetic peptide designed for use in combination with anti- PLSCR3 Antibody, made Target Description: May mediate accelerated ATP-independent bidirectional transbilayer migration of phospholipids upon binding calcium ions that results in a loss of phospholipid asymmetry in the plasma membrane. May play a central role in the initiation of fibrin clot formation, in the activation of mast cells and in the recognition of apoptotic and injured cells by the reticuloendothelial system. Seems to play a role in apoptosis, through translocation of cardiolipin from the inner to the outer mitochondrial membrane which promotes BID recruitment and enhances tBid-induced mitochondrial damages.
Other Notes	Small volumes of PLSCR3 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PLSCR3 purchase	MBS3246677 is a blocking peptide targeting PLSCR3. Also known as PLSCR3 Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLSCR3. It may not necessarily be applicable to this product.

NCBI GI #	320118922
NCBI GeneID	57048
NCBI Accession #	NP_001188505.1
UniProt Primary Accession #	Q9NRY6
UniProt Related Accession #	Q9NRY6
GenBank Nucleotide #	NM_001201576.1
NCBI Official Full Name	phospholipid scramblase 3

NCBI Official Synonym Full Names	phospholipid scramblase 3
NCBI Official Symbol	PLSCR3
UniProt Protein Name	Phospholipid scramblase 3
UniProt Synonym Protein Names	Ca(2+)-dependent phospholipid scramblase 3
Protein Family	Phospholipid scramblase
UniProt Gene Name	PLSCR3
UniProt Synonym Gene Names	PL scramblase 3
UniProt Entry Name	PLS3_HUMAN
NCBI Protein Information	phospholipid scramblase 3
UniProt Comments for PLSCR3	PLSCR3: May mediate accelerated ATP-independent bidirectional transbilayer migration of phospholipids upon binding calcium ions that results in a loss of phospholipid asymmetry in the plasma membrane. May play a central role in the initiation of fibrin clot formation, in the activation of mast cells and in the recognition of apoptotic and injured cells by the reticuloendothelial system. Belongs to the phospholipid scramblase family. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 17p13.1 Cellular Component: mitochondrial membrane; integral to membrane; plasma membrane Molecular Function: phospholipid scramblase activity; protein binding; calcium ion binding; calcium-dependent protein binding; SH3 domain binding Biological Process: cholesterol homeostasis; apoptosis; phospholipid scrambling; glucose homeostasis
Research Articles on PLSCR3	**1.** The results revealed that Ca2+ and Mg2+ bind to Human phospholipid scramblase 3 (hPLSCR3) and trigger conformational changes mediated by aggregation.
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