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MBOAT7 Blocking Peptide(Center)

Synthetic peptide
Catalog # BP19694c

Specification

MBOAT7 Blocking Peptide(Center) - Product Information

Primary Accession	Q96N66
Other Accession	Q8CHK3, Q0VCY6, NP_001139528.1, NP_001139554.1, NP_001139555.1, NP_077274.3

MBOAT7 Blocking Peptide(Center) - Additional Information

Gene ID 79143

Other Names
Lysophospholipid acyltransferase 7, LPLAT 7, 231-, 1-acylglycerophosphatidylinositol O-acyltransferase, 231n4, Bladder and breast carcinoma-overexpressed gene 1 protein, Leukocyte receptor cluster member 4, Lysophosphatidylinositol acyltransferase, LPIAT, Lyso-PI acyltransferase, Membrane-bound O-acyltransferase domain-containing protein 7, O-acyltransferase domain-containing protein 7, h-mboa-7, MBOAT7, BB1, LENG4, OACT7

Target/Specificity
The synthetic peptide sequence is selected from aa 166-180 of HUMAN MBOAT7

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.

MBOAT7 Blocking Peptide(Center) - Protein Information

Name MBOAT7 (HGNC:15505)

Synonyms BB1, LENG4, OACT7

Function
Acyltransferase which catalyzes the transfer of an acyl group from an acyl-CoA to a lysophosphatidylinositol (1- acylglycerophosphatidylinositol or LPI) leading to the production of a phosphatidylinositol (1,2-diacyl-sn-glycero-3-phosphoinositol or PI) and participates in the reacylation step of the phospholipid remodeling pathway also known as the Lands cycle (PubMed:18772128, PubMed:18094042).

Prefers arachidonoyl-CoA as the acyl donor, thus contributing to the regulation of free levels arachidonic acid in cell (PubMed:18772128, PubMed:18094042). In liver, participates in the regulation of triglyceride metabolism through the phosphatidylinositol acyl-chain remodeling regulation (PubMed:32253259).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Localized in specific membrane structures termed mitochondria-associated membranes (MAMs) which connect the endoplasmic reticulum (ER) and the mitochondria.

Tissue Location
Overexpressed in metastatic breast and bladder carcinomas relative to normal breast epithelium and urothelium

MBOAT7 Blocking Peptide(Center) - Protocols

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

- Blocking Peptides

MBOAT7 Blocking Peptide(Center) - Images

MBOAT7 Blocking Peptide(Center) - Background

This gene encodes a member of the membrane-bound O-acyltransferases family of integral membrane proteins that have acyltransferase activity. The encoded protein is a lysophosphatidylinositol acyltransferase that has specificity for arachidonoyl-CoA as an acyl donor. This protein is involved in the reacylation of phospholipids as part of the phospholipid remodeling pathway known as the Land cycle. Alternative splicing results in multiple transcript variants.

MBOAT7 Blocking Peptide(Center) - References

Gijon, M.A., et al. J. Biol. Chem. 283(44):30235-30245(2008)
Lee, H.C., et al. Mol. Biol. Cell 19(3):1174-1184(2008)
Wende, H., et al. Immunogenetics 51 (8-9), 703-713 (2000) :
Fukunaga-Johnson, N., et al. Anticancer Res. 16 (3A), 1085-1090 (1996) :