

Datasheet for ABIN7559337

## MBOAT7 Protein (AA 1-473) (His tag)



[Go to Product page](#)

### Overview

Quantity:	1 mg
Target:	MBOAT7
Protein Characteristics:	AA 1-473
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MBOAT7 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat Mboat7 Protein expressed in mammalian cells.
Sequence:	<p>MTPEEWTYLM VLLISIPVGF LFKKAGPGLK RWGAAAVGLG LTLFTCGPHS LHSLITILGT  WALIQAQPCS CHALALAWTF SYLLFFRALS LLGLPTPTPF TNAVQLLLTL KLVSLASEVQ  DLHLAQRKEI ASGFHKEPTL GLLPEVPSLM ETLSYSYCYV GIMTGPFFRY RTYLDWLEQP  FPEAVPSLRP LLRRRAWPAPL FGLLFLSSH LFPLEAVRED AFYARPLPTR LFYMIPVFFA  FRMRFYVAWI AAECGCIAAG FGAYPVAACA RAGGGPTLQC PPPSSPEIAA SLEYDYETIR  NIDCYGTDFC VRVRDGMRYW NMTVQWWLAQ YIYKSAPFRS YVLRSAWTML LSAYWHGLHP  GYLFSFMTIP LCLAAEGYLE SALRRHLSPG GQKAWDWWHW FLKMRAYDYM CMGFVLLSMA  DTLRYWASIY FWVHFLALAC LGLGLVLGGG SPSKRKTPSQ ATSSQAKEKL REE <b>Sequence</b>  <b>without tag. The proposed Purification-Tag is based on experiences with the expression</b>  <b>system, a different complexity of the protein could make another tag necessary. In case you</b>  <b>have a special request, please contact us.</b></p>

## Product Details

---

### Characteristics:

### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

### Grade:

custom-made

## Target Details

---

### Target:

MBOAT7

### Alternative Name:

Mboat7 ([MBOAT7 Products](#))

### Background:

Lysophospholipid acyltransferase 7 (LPLAT 7) (EC 2.3.1.-) (1-acylglycerophosphatidylinositol O-acyltransferase) (Bladder and breast carcinoma-overexpressed gene 1 protein) (Leukocyte receptor cluster member 4) (Lysophosphatidylinositol acyltransferase 1) (LPIAT1) (Membrane-bound O-acyltransferase domain-containing protein 7) (O-acyltransferase domain-containing protein 7) (m-mboa-7),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:23097495, PubMed:23472195, PubMed:32253259). Prefers arachidonoyl-CoA as the acyl donor, thus contributing to the regulation of free levels arachidonic acid in cell (PubMed:23097495, PubMed:23472195). In liver, participates in the regulation of triglyceride metabolism through the phosphatidylinositol acyl-chain remodeling regulation (PubMed:32253259). {ECO:0000269|PubMed:23097495,

## Target Details

	ECO:0000269 PubMed:23472195, ECO:0000269 PubMed:32253259}.
Molecular Weight:	53.4 kDa
UniProt:	<a href="#">Q8CHK3</a>
Pathways:	<a href="#">Inositol Metabolic Process</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months