

# Recombinant Human MBOAT7 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** MBOAT7-2941H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | MBOAT7 MS Standard C13 and N15-labeled recombinant protein (NP_077274) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 52.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MSPEEWTYLVLLISIPIGFLFKKAGPGLKRWGAAVGLGLTLFTCGPHTLHSLVTILG<br>TWALIQAQPCSCHALALAWTFSYLLFFRALSLLGLPTPTPFTNAVQLLLTLKLVSLASE<br>VQDLHLAQRKEMASGFSKGPTLGLLPDVPSLMETLSYSYCYVGIMTGPFPRYRYYL<br>DWLEQPFPGAVPSLRPLLRRAWPAPLFGLLFLLSSHLPLEAVREDAFYARPLPARL<br>FYMIPVFFAFRMRFYVAWIAAECGCIAAGFGAYPVAAKARAGGGPTLQCPPPSPE<br>KAASLEYDYETIRNIDCYSTDFCVRVRDGMRYWNMTVQWWLAQYIYKSAPARSYVL<br>RSAWTMLLSAYWHGLHPGYYLSFLTIPLCIAAEGRLSALRGRSLSPGGQKAWDWV                                            |

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HWFLKMRAYDYMCMGFVLLSLADTLRYWASIYFCIHFLALAALGLGLALGGGSPSRR  
KAASQPTSLAPEKLREETRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** MBOAT7 membrane bound O-acyltransferase domain containing 7 [ Homo sapiens (human) ]

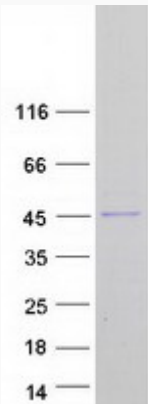
**Official Symbol** MBOAT7

**Synonyms** MBOAT7; membrane bound O-acyltransferase domain containing 7; LENG4, leukocyte receptor cluster (LRC) member 4; lysophospholipid acyltransferase 7; BB1; hMBOA 7; LPIAT; lysophosphatidylinositol acyltransferase; LPLAT 7; h-mboa-7; lyso-PI acyltransferase; leukocyte receptor cluster member 4; leukocyte receptor cluster (LRC) member 4; O-acyltransferase domain-containing protein 7; 1-acylglycerophosphatidylinositol O-acyltransferase; bladder and breast carcinoma-overexpressed gene 1 protein; membrane-bound O-acyltransferase domain-containing protein 7; malignant cell expression-enhanced gene/tumor progression-enhanced; LRC4; LENG4; MBOA7; OACT7; hMBOA-7; FLJ41296;

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|----------------|-------------------------------------------------------------------------------------|
| Gene ID        | 79143                                                                               |
| mRNA Refseq    | NM_024298                                                                           |
| Protein Refseq | NP_077274                                                                           |
| MIM            | 606048                                                                              |
| UniProt ID     | Q96N66                                                                              |
| SDS-PAGE       |  |