

## Recombinant Human LPCAT4 Protein, GST-tagged

**Cat. No.** LPCAT4-437H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human AGPAT7 full-length ORF ( NP_705841.2, 1 a.a. - 524 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Members of the 1-acylglycerol-3-phosphate O-acyltransferase (EC 2.3.1.51) family, such as AGPAT7, catalyze the conversion of lysophosphatidic acid (LPA) to phosphatidic acid (PA), a precursor in the biosynthesis of all glycerolipids. Both LPA and PA are involved in signal transduction (Ye et al., 2005 [PubMed 16243729]).[supplied by OMIM, May 2008]                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 83.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MSQGSPGDWAPLDPTPGPPASPNPFVHELHLSRLQRVKFCLLGALLAPIRVLLAFIV<br>LFLWLWPFQVAGLSEEQLQEPITGWRKTVCHNGVLGLSRLFFLLGFLRIRVRGQ<br>RASRLQAPVLVAAPHSTFFDPIVLLPCDLPKVVSRANLSVPVIGALLRFNQAILVSRH<br>DPASRRRVVEEVRRRATSGGKWPQVLFFPEGTCSNKKALLKFKPGAFIAGVPVQPV<br>LIRYPNSLDTTSAWRGPGVLKVLWTASQPCSIQDVEFLPVYHPSPEESRDPTLYA<br>NNVQRMVMAQALGIPATECEFGSLPVIVVGRLLKVALEPQLWELGKVLKAGLSAGYV<br>DAGAEPGRSRMISQEEFARQLQLSDPQTVAGAFGYFQQDTKGLVDFRDVALALAAL<br>DGGRSLEELTRLAFELFAEEQAEGPNRLLYKDGFTILHLLGSPHPAATALHAELCQ<br>AGSSQGLSLCQFQNFSLHDPLYGKLFSTYLRPPHTSRGTSQTPNASSPGNPALAN |

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|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | GTVQAPKQKGD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>          | Store at -80centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Gene Name</b>        | <a href="#">LPCAT4 lysophosphatidylcholine acyltransferase 4 [ Homo sapiens ]</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b>  | <a href="#">LPCAT4</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>         | LPCAT4; lysophosphatidylcholine acyltransferase 4; 1 acylglycerol 3 phosphate O acyltransferase 7 (lysophosphatidic acid acyltransferase, eta), acyltransferase like 3, AGPAT7, AYTL3; lysophospholipid acyltransferase LPCAT4; FLJ10257; LPAAT eta; LPEAT2; lysophosphatidylethanolamine acyltransferase 2; 1-AGPAT 7; acyltransferase like 3; acyltransferase-like 3; 1-AGP acyltransferase 7; PLSC domain containing protein; acyl-CoA:lysophosphatidylethanolamine acyltransferase 2; 1-acylglycerol-3-phosphate O-acyltransferase 7 (lysophosphatidic acid acyltransferase, eta); AYTL3; AGPAT7; LPAAT-eta; |
| <b>Gene ID</b>          | <a href="#">254531</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>      | <a href="#">NM_153613</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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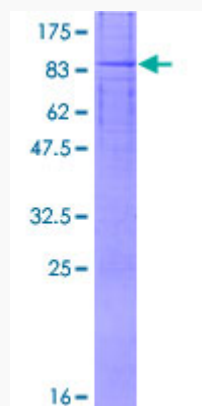
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**Protein Refseq** NP\_705841

**MIM** 612039

**UniProt ID** Q643R3

**Quality Control  
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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