

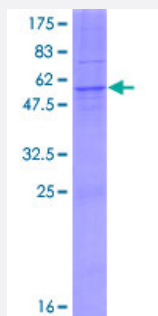
Full-Length

AGPAT1 (Human) Recombinant Protein (P01)

Catalog # H00010554-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human AGPAT1 full-length ORF (NP_006402.1, 1 a.a. - 283 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDLWPGAWMLLLLLFLLLLFLLPTLWFCSPSAKYFFKMAFYNGWILFLAVLAIPVCAVRGRNVEN
MKILRLMLLHIKLYGIRVEVRGAHHFPPSQPYVVSNHQSSDLLGMMEVLPGRCVPIAKRELLW
AGSAGLACWLAGVIFIDRKRTGDAISVMSEVAQTLLTQDVRVWVFPEGTRNHNGSMLPFKRGAF
HLAVQAQVPVPIVMSSYQDFYCKKERRFTSGQCQVRVLPVPTEGLTPDDVPALADRVRHSMLT
VFREISTDGRGGGDYLLKPGGGG

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

58.1

Interspecies Antigen Sequence

Mouse (91); Rat (92)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — AGPAT1

Entrez GeneID[10554](#)**GeneBank Accession#**[NM_006411.2](#)**Protein Accession#**[NP_006402.1](#)**Gene Name**

AGPAT1

Gene Alias

1-AGPAT1, G15, LPAAT-alpha, LPAATA, MGC4007, MGC5423

Gene Description

1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidic acid acyltransferase, alpha)

Omim ID[603099](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes an enzyme that converts lysophosphatidic acid (LPA) into phosphatidic acid (PA). LPA and PA are two phospholipids involved in signal transduction and in lipid biosynthesis in cells. This enzyme localizes to the endoplasmic reticulum. This gene is located in the class III region of the human major histocompatibility complex. Alternative splicing results in two transcript variants encoding the same protein. [provided by RefSeq]

Other Designations

1-AGP acyltransferase 1|1-acylglycerol-3-phosphate O-acyltransferase 1|1-acylglycerol-3-phosphate O-acyltransferase 1 (acetoacetyl Coenzyme A thiolase)|OTTHUMP00000029298|OTTHUMP00000029299|OTTHUMP00000029300|OTTHUMP00000029301|OTTHUMP00000029302|OTTHUMP0

Pathway

- [Ether lipid metabolism](#)
- [Glycerolipid metabolism](#)
- [Glycerophospholipid metabolism](#)
- [Metabolic pathways](#)

Disease

- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)
- [Obesity](#)