

Datasheet for ABIN7548037

AGPAT9 Protein (AA 1-434) (His tag)



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Overview

Quantity:	1 mg
Target:	AGPAT9
Protein Characteristics:	AA 1-434
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AGPAT9 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant GPAT3 Protein expressed in mammalian cells.
Sequence:	<p>MEGAELAGKI LSTWLTVLG FILLPSVFGV SLGISEIYMK ILVKTLEWAT IRIEKGTPKE</p> <p>SILKNSASVG IIRDESPME KGLSGLRGRD FELSDVFYFS KKGLEAIVED EVTQRFSSSE</p> <p>LVSWNLLTRT NVNFQYISLR LTMVWVLGVI VRYCVLLPLR VTAFIGISL LVIGTTLVGQ</p> <p>LPDSSLKNWL SELVHLTCCR ICVRALSGTI HYHNKQYRPQ KGGICVANHT SPIDVLILTT</p> <p>DGCYAMVGQV HGGLMGIIQR AMVKACPHVW FERSEMKDRH LVTKRLKEHI ADKKKLPIIL</p> <p>FPEGTCINNT SVMMFKKGSF EIGGTIHPVA IKYNPQFGDA FWNSSKYNMV SYLLRMMTSW</p> <p>AIVCDVWYMP PMTREEGEDA VQFANRVKSA IAIQGGLTEL PWDGGLKRAK VKDIFKEEQQ</p> <p>KNYSKMIVGN GSLS Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

AGPAT9

Alternative Name:

GPAT3 ([AGPAT9 Products](#))

Background:

Glycerol-3-phosphate acyltransferase 3 (GPAT-3) (EC 2.3.1.15) (1-acyl-sn-glycerol-3-phosphate O-acyltransferase 10) (AGPAT 10) (1-acyl-sn-glycerol-3-phosphate O-acyltransferase 9) (1-AGP acyltransferase 9) (1-AGPAT 9) (EC 2.3.1.51) (Acyl-CoA:glycerol-3-phosphate acyltransferase 3) (hGPAT3) (Lung cancer metastasis-associated protein 1) (Lysophosphatidic acid acyltransferase theta) (LPAAT-theta) (MAG-1),FUNCTION: Converts glycerol-3-phosphate to 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) by incorporating an acyl moiety at the sn-1 position of the glycerol backbone (PubMed:17170135). Also converts LPA into 1,2-diacyl-sn-glycerol-3-phosphate (phosphatidic acid or PA) by incorporating an acyl moiety at the sn-2 position of the glycerol backbone (PubMed:19318427). Protects cells against lipotoxicity (PubMed:30846318). {ECO:0000269|PubMed:17170135, ECO:0000269|PubMed:19318427, ECO:0000269|PubMed:30846318}.

Molecular Weight:

48.7 kDa

UniProt:

[Q53EU6](#)

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Restrictions:	For Research Use only
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Handling

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