

Datasheet for ABIN7561003

AGPAT3 Protein (AA 1-376) (His tag)



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Overview

Quantity:	1 mg
Target:	AGPAT3
Protein Characteristics:	AA 1-376
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AGPAT3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Agpat3 Protein expressed in mammalian cells.
Sequence:	<p>MGLLAYLKTQ FVVHLLIGFV FVVSGLIINF TQLCTLALWP ISKHLRYRRIN CRLAYSLWSQ</p> <p>LVMLLEWWSC TECTLFTDQA TVDHFGKEHV VVILNHNFEI DFLCGWTMCE RFGVLGSSKV</p> <p>LAKRELLCVP LIGWTWYFLE IVFCKRKWEE DRDTVIEGLR RLADYPEYMW FLLYCEGTRF</p> <p>TETKHRISME VAASKGLPPL KYHLLPRTKG FTTAVQCLRG TVAAIYDVTI NFRGNKNPSL</p> <p>LGILYGKKYE ADMCVRRFPL EDIPADETSA AQWLHKLYQE KDALQEMYKQ KGVFPGEQFK</p> <p>PARRPWTLN FLCWATILLS PLFSFVLGVF ASGSPLLILT FLGFVGAASF GVRRLIGVTE</p> <p>IEKGSSYGNQ ELKKKE 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.
Characteristics:	Key Benefits:

Product Details

- 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:	AGPAT3
Alternative Name:	Agpat3 (AGPAT3 Products)
Background:	<p>1-acyl-sn-glycerol-3-phosphate acyltransferase gamma (EC 2.3.1.51) (1-acylglycerol-3-phosphate O-acyltransferase 3) (1-AGP acyltransferase 3) (1-AGPAT 3) (Lysophosphatidic acid acyltransferase gamma) (LPAAT-gamma),FUNCTION: Converts 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or 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:15367102). Acts on LPA containing saturated or unsaturated fatty acids C16:0-C20:4 at the sn-1 position using C18:1, C20:4 or C18:2-CoA as the acyl donor (By similarity). Also acts on lysophosphatidylcholine, lysophosphatidylinositol and lysophosphatidylserine using C18:1 or C20:4-CoA (By similarity). Has a preference for arachidonoyl-CoA as a donor (PubMed:19114731). Has also a modest lysophosphatidylinositol acyltransferase (LPIAT) activity, converts lysophosphatidylinositol (LPI) into phosphatidylinositol (PubMed:19114731). {ECO:0000250 UniProtKB:Q9NRZ7, ECO:0000269 PubMed:15367102, ECO:0000269 PubMed:19114731}.</p>
Molecular Weight:	43.3 kDa

Target Details

UniProt: [Q9D517](#)

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.
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