Datasheet for ABIN7549501

MOGAT2 Protein (AA 1-334) (His tag)

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Overview

Quantity:	1 mg
Target:	MOGAT2
Protein Characteristics:	AA 1-334
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MOGAT2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant MOGAT2 Protein expressed in mammalian cells.
Sequence:	MVEFAPLFMP WERRLQTLAV LQFVFSFLAL AEICTVGFIA LLFTRFWLLT VLYAAWWYLD RDKPRQGGRH IQAIRCWTIW KYMKDYFPIS LVKTAELDPS RNYIAGFHPH GVLAVGAFAN LCTESTGFSS IFPGIRPHLM MLTLWFRAPF FRDYIMSAGL VTSEKESAAH ILNRKGGGNL LGIIVGGAQE ALDARPGSFT LLLRNRKGFV RLALTHGAPL VPIFSFGEND LFDQIPNSSG SWLRYIQNRL QKIMGISLPL FHGRGVFQYS FGLIPYRRPI TTVVGKPIEV QKTLHPSEEE VNQLHQRYIK ELCNLFEAHK LKFNIPADQH LEFC **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.**
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:	MOGAT2
Alternative Name:	MOGAT2 (MOGAT2 Products)
Background:	2-acylglycerol O-acyltransferase 2 (EC 2.3.1.20) (EC 2.3.1.22) (Acyl-CoA:monoacylglycerol acyltransferase 2) (MGAT2) (hMGAT2) (Diacylglycerol O-acyltransferase candidate 5) (hDC5) (Diacylglycerol acyltransferase 2-like protein 5) (Monoacylglycerol O-acyltransferase 2),FUNCTION: Involved in glycerolipid synthesis and lipid metabolism (PubMed:12621063, PubMed:18768481, PubMed:27184406, PubMed:28420705). Catalyzes the formation of diacylglycerol, the precursor of triacylglycerol, by transferring the acyl chain of a fatty acyl-CoA to a monoacylglycerol (PubMed:12621063, PubMed:27184406). Plays a central role in absorption of dietary fat in the small intestine by catalyzing the resynthesis of triacylglycerol in enterocytes (By similarity). Has a preference toward monoacylglycerols containing unsaturated fatty acids in an order of C18:3 > C18:2 > C18:1 > C18:0 at sn-2 (PubMed:12621063). Able to use 1-monoalkylglycerol (1-MAkG, 1-O-alkylglycerol) as an acyl acceptor for the synthesis of monoalkyl-monoacylglycerol (MAMAG, 1-O-alkyl-3-acylglycerol or 1-O-alkyl-2-acylglycerol) and subsequently, with lower efficiency, may add another acyl chain producing monoalkyl-diacylglycerol (MADAG, 1-O-alkyl-2,3-diacylglycerol) (PubMed:28420705). Possesses weak but

Target Details

	significant activity with diacylglycerol as substrate, producing triacylglycerol (triacyl-sn-glycerol) (PubMed:18768481). {ECO:0000250|UniProtKB:Q80W94, ECO:0000269|PubMed:12621063, ECO:0000269|PubMed:18768481, ECO:0000269|PubMed:27184406, ECO:0000269|PubMed:28420705}.
Molecular Weight:	38.2 kDa
UniProt:	Q3SYC2

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

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