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Datasheet for ABIN7560161

**MOGAT1 Protein (AA 1-335) (His tag)**

## Overview

Quantity:	1 mg
Target:	MOGAT1
Protein Characteristics:	AA 1-335
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MOGAT1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Mogat1 Protein expressed in mammalian cells.
Sequence:	MMVEFAPLNT PLARCLQTAA VLQWVLSFLL LVQVCIGIMV MLVLYNYWFL YIPYLVWFY DWRTPSEQGR RWNWVQSWPV WKYFKEYFPI CLVKTQDLDP GHNYIFGFHP HGIFVPGAFG NFCTKYSDFK KLFPGFSTYL HVAKIWFCFP LFREYLMNSG PVSVSKESSL HVLSKDGGGN VSIIVLGGAK EALEAHPGTF TLCIRQRKGF VKMALTHGAS LVPVFSFGEN DLYKQINNP GSWLRTIQDA MYDSMGVALP LIYARGIFQH YFGIMPYRKL IYTVVGRPIP VQQTNLNPTSE QIEELHQTYL EELKCLFNEH KGKYGIPEHE TLVFK <b>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.</b>
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

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- 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.

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Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

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## Target Details

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Target:	MOGAT1
Alternative Name:	Mogat1 ( <a href="#">MOGAT1 Products</a> )
Background:	2-acylglycerol O-acyltransferase 1 (EC 2.3.1.22) (Acyl-CoA:monoacylglycerol acyltransferase 1) (MGAT1) (Diacylglycerol acyltransferase 2-like protein 1) (Monoacylglycerol O-acyltransferase 1),FUNCTION: Involved in glycerolipid synthesis and lipid metabolism (PubMed:12077311, PubMed:12621063). Catalyzes the formation of diacylglycerol, the precursor of triacylglycerol, by transferring the acyl chain of a fatty acyl-CoA to a monoacylglycerol, mainly at the sn-1 or sn-3 positions (PubMed:12077311, PubMed:12621063). It uses both sn-2-monoacylglycerol (2-acylglycerol) and sn-1-monoacylglycerol (1-acyl-sn-glycerol) equally well as substrates, and uses sn-3-monoacylglycerol (3-acyl-sn-glycerol) with lower efficiency (PubMed:12077311). Probably not involved in absorption of dietary fat in the small intestine. {ECO:0000269 PubMed:12077311, ECO:0000269 PubMed:12621063}.
Molecular Weight:	38.8 kDa
UniProt:	<a href="#">Q91ZV4</a>

## Application Details

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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

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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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