

Datasheet for ABIN7553643  
**DGAT2 Protein (AA 1-388) (His tag)**



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## Overview

Quantity:	1 mg
Target:	DGAT2
Protein Characteristics:	AA 1-388
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGAT2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant DGAT2 Protein expressed in mammalian cells.
Sequence:	<p>MKTLIAAYSG VLRGERQAEA DRSQRSHGGP ALSREGSGRW GTGSSILSAL QDLFSVTWLN  RSKVEKQLQV ISVLQWVLSF LVLGVACSAI LMYIFCTDCW LIAVLYFTWL VFDWNTPKKG  GRRSQWVRNW AVWRYFRDYF PIQLVKTHNL LTRNYIFGY HPHGIMGLGA FCNFSTEATE  VSKKFPGIRP YLATLAGNFR MPVLREYLMs GGICPVSRDT IDYLLSKNGS GNIIIVVGG  AAESLSSMPG KNAVTLRNRK GFVKLALRHG ADLVPIYSFG ENEVYQVIF EEGSWGRWVQ  KKFQKYIGFA PCIFHGRGLF SSDTWGLVPY SKPITTVVGE PITIPKLEHP TQQDIDLYHT  MYMEALVKLF DKHKTKFGLP ETEVLEVN <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></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:

DGAT2

### Alternative Name:

DGAT2 ([DGAT2 Products](#))

### Background:

Diacylglycerol O-acyltransferase 2 (EC 2.3.1.20) (Acyl-CoA retinol O-fatty-acyltransferase) (ARAT) (Retinol O-fatty-acyltransferase) (EC 2.3.1.76) (Diglyceride acyltransferase 2),FUNCTION: Essential acyltransferase that catalyzes the terminal and only committed step in triacylglycerol synthesis by using diacylglycerol and fatty acyl CoA as substrates. Required for synthesis and storage of intracellular triglycerides (PubMed:27184406). Probably plays a central role in cytosolic lipid accumulation. In liver, is primarily responsible for incorporating endogenously synthesized fatty acids into triglycerides (By similarity). Functions also as an acyl-CoA retinol acyltransferase (ARAT) (By similarity). Also able to use 1-monoalkylglycerol (1-MAkG) as an acyl acceptor for the synthesis of monoalkyl-monoacylglycerol (MAMAG) (PubMed:28420705). {ECO:0000250|UniProtKB:Q9DCV3, ECO:0000269|PubMed:27184406, ECO:0000269|PubMed:28420705}.

### Molecular Weight:

43.8 kDa

### UniProt:

[Q96PD7](#)

## 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