

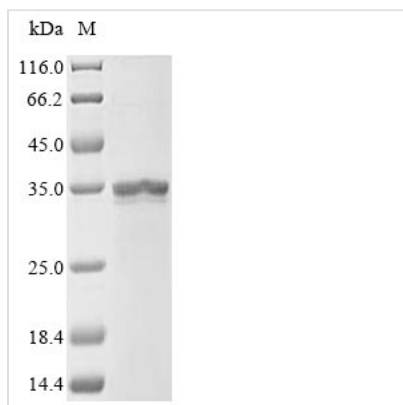


# Recombinant Human Diacylglycerol O-acyltransferase 1 (DGAT1), partial

<b>Product Code</b>	CSB-CF006817HU1
<b>Relevance</b>	Catalyzes the terminal and only committed step in triacylglycerol synthesis by using diacylglycerol and fatty acyl CoA as substrates. In contrast to DGAT2 it is not essential for survival. May be involved in VLDL (very low density lipoprotein) assembly. In liver, plays a role in esterifying exogenous fatty acids to glycerol. Functions as the major acyl-CoA retinol acyltransferase (ARAT) in the skin, where it acts to maintain retinoid homeostasis and prevent retinoid toxicity leading to skin and hair disorders.
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	O75907
<b>Product Type</b>	Transmembrane Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	TVSYPDNLTYRDLYYFLFAPTLCYELNFPSPRIKRFLRRILEMLFFTQLQVG LIQQWMVPTIQNSMKPFKDMDYSRRIERLLKLAVPNHLIWLIFFYWLFHSCNNAV AELMQFGDREFYRDWWNSESVTYFWQWNIPVHKWCIRHFYKPMMLRRGSS KWMARTGVFLASAFFHEYLVSVPLRMFRLWAFTGMMMAQIPLAWFVGRFFQG NYGNAAVWLSLIIGQPIAVLMYVHDYYVLNIEAPAAEA
<b>Lead Time</b>	Delivery time may differ from different purchasing way or location, please kindly consult your local distributors for specific delivery time.
<b>Research Area</b>	Cancer
<b>Source</b>	in vitro E.coli expression system
<b>Gene Names</b>	DGAT1
<b>Protein Names</b>	ACAT-related gene product 1 Acyl-CoA retinol O-fatty-acyltransferase Short name:ARAT Short name: Retinol O-fatty-acyltransferase Diglyceride acyltransferase AGRP1, DGAT
<b>Expression Region</b>	240-488aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 10xHis-tagged and C-terminal Myc-tagged
<b>Mol. Weight</b>	37.1 kDa
<b>Protein Description</b>	Partial



## Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.