



# Recombinant Human Diacylglycerol O-acyltransferase 1 (DGAT1)

<b>Product Code</b>	CSB-CF006817HU
<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>	MGDRGSSRRRRRTGSRPSSHGGGGPAAAEVVRDAAAGPDVGAAGDAPAPA PNKDG DAGVSGHWELRCHRLQDSLFS SSGFSNYRGILNWCVVMLILSNAR LFLENLIKYGILVDPIQVVSLFLKDPYSWPAPCLVIAANVFAVA AFQVEKRLAVG ALTEQAGLLLHVANLATILCFPAAVVLLVESITPVGSLLALMAHTILFLKLSYRD VNSWCRRARAKAASAGKKASSAAAPHTVSYPDNLTYRDLYYFLFAP TLCYELN FPRSPRIRKRFLRRILEMLFFTQLQVGLIQQWMVPTIQNSMKPFKDM DYSRIIE RLLKLAVPNHLIWLIFFYWLFH SCLNAVAELMQFGDREFYRDWWNSESVTYF WQNWNIPVHKWCIRHFYK PMLRRGSSKWMARTGVFLASAFFHEYLVS VPLR MFRLWAFTGMMAQIPLAWFVGRFFQGNYGNAAVWLSLIIGQPIAVLMYVHDY YVLN YEAPAAEA
<b>Source</b>	in vitro E.coli expression system
<b>Target Names</b>	DGAT1
<b>Protein Names</b>	ACAT-related gene product 1Acyl-CoA retinol O-fatty-acyltransferase Short name:ARAT Short name:Retinol O-fatty-acyltransferase Diglyceride acyltransferase AGRP1, DGAT
<b>Expression Region</b>	1-488aa
<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>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length
<b>Shelf Life</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.