

Recombinant Human DGAT1 protein, His/SUMO-tagged

Cat. No. DGAT1-26H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DGAT1(1-488 aa) fused with His/SUMO tag was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-488 aa
Description	This gene encodes an multipass transmembrane protein that functions as a key metabolic enzyme. The encoded protein catalyzes the conversion of diacylglycerol and fatty acyl CoA to triacylglycerol. This enzyme can also transfer acyl CoA to retinol. Activity of this protein may be associated with obesity and other metabolic diseases.
Form	Tris-based buffer,50% glycerol
AA Sequence	MGDRGSSRRRRTGSRPSSHGGGGPAAAEVEVRDAAAGPDVGAAGDAPAPAPNKD GDAGVG SGHWELRCHRLQDSLFSDDSGFSNYRGILNWCVMMLILSNARLFLENLIK YGILVDPIQV VSLFLKDPYSWPAPCLVIAANVFVAAAFQVEKRLAVGALTEQAGLLH VANLATILCFPA AVVLLVESITPVGSLLALMAHTILFLKLFYSYRDVNSWCRRARAKAA SAGKKASSAAAPHT VSYPDNLTYRDLYYFLFAPTLCYELNFPRSPRIRKRFLRRILE MLFFTQLQVGLIQQWM VPTIQNSMKPFKMDYSRRIERLLKLAVPNHLIWLIFFYWLF HSCLNAVAELMQFGDREF YRDWWNSESVTYFWQNWNPVHKWCIRHFYKPMMLRR GSSKWMARTGVFLASAFFHEYLVSVPLRMFRLWAFTGMMAQIPLAWFVGRFFQG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

NYGNAAVWLSLIIGQPIAVLMYVHDYYVLN YEAPAAEA

Notes

Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage

Store at -20 centigrade, for extended storage, conserve at -20 centigrade or -80 centigrade.

GENE INFORMATION

Gene Name

DGAT1 diacylglycerol O-acyltransferase 1 [Homo sapiens]

Official Symbol

DGAT1

Synonyms

DGAT1; diacylglycerol O-acyltransferase 1; diacylglycerol O acyltransferase homolog 1 (mouse); ARGP1; DGAT; ACAT related gene product 1; ACAT-related gene product 1; diglyceride acyltransferase; diacylglycerol O-acyltransferase homolog 1; acyl coenzyme A:cholesterol acyltransferase related gene 1;

Gene ID

8694

mRNA Refseq

NM_012079

Protein Refseq

NP_036211

MIM

604900

UniProt ID

O75907

**Chromosome
Location**

8q24.3

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Pathway

Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glycerolipid metabolism, organism-specific biosystem; Glycerolipid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;

Function

2-acylglycerol O-acyltransferase activity; O-acyltransferase activity; diacylglycerol O-acyltransferase activity; diacylglycerol binding; fatty acid binding; transferase activity, transferring acyl groups;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA