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	MGDRGSSRRRRTGSRPSSHGGGGPAAAEEEVRDAAAGPDVGAAGDAPAPAPNKD GDAGVG SGHWELRCHRLQDSLFSSDSGFSNYRGILNWCVVMLILSNARLFLENLIK YGILVDPIQV VSLFLKDPYSWPAPCLVIAANVFAVAAFQVEKRLAVGALTEQAGLLLH VANLATILCFPA AVVLLVESITPVGSLLALMAHTILFLKLFSYRDVNSWCRRARAKAA SAGKKASSAAAPHT VSYPDNLTYRDLYYFLFAPTLCYELNFPRSPRIRKRFLLRRILE MLFFTQLQVGLIQQWM VPTIQNSMKPFKDMDYSRIIERLLKLAVPNHLIWLIFFYWLF HSCLNAVAELMQFGDREF YRDWWNSESVTYFWQNWNIPVHKWCIRHFYKPMLRR GSSKWMARTGVFLASAFFHEYLVS VPLRMFRLWAFTGMMAQIPLAWFVGRFFQG

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	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

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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;

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