Recombinant Human DGAT1 Over-expression Cell Lysate

Cat. No. DGAT1-930HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DGAT1 over-expression cell lysate was derived in human HEK293T cell line.
Species	Human
Source	HEK293
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	The cell lysate is provided in RIPA buffer(25mM Tris-HCl pH7.6, 150mM NaCl, 1% NP-40, 1mM EDTA, 1xProteinase inhibitor cocktail mix (Sigma), 1mM PMSF and 1mM Na3VO4).
Molecular Mass	55.1 kDa
Usage	1 vial of 100 µg gene specific transient over-expression cell lysate in RIPA buffer 1 vial of 100 µg empty vector transfected control cell lysate in RIPA buffer 1 vial of 250ul 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromphenol blue, 100mM DTT)
Storage	Upon receiving, store the sample at -20 centigrade. Lysate samples are stable for 12

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	months from date of receipt when stored at -20 centigrade. Avoid repeated freeze-thaw cycles. Lysate samples can be diluted with 2xSDS Sample Buffer provided. After dilution, the protein sample should be aliquoted and stored at -20 centigrade for long term storage. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

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
Pathway	Fat digestion and absorption, organism-specific biosystem; Fat digestion and

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	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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