

## Recombinant Human DGAT2, GST-tagged

**Cat. No.** DGAT2-11949H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Human DGAT2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

**Species**                      Human

**Source**                        E.coli

**ProteinLength**              113-388a.a.

**Description**                This gene encodes one of two enzymes which catalyzes the final reaction in the synthesis of triglycerides in which diacylglycerol is covalently bound to long chain fatty acyl-CoAs. The encoded protein catalyzes this reaction at low concentrations of magnesium chloride while the other enzyme has high activity at high concentrations of magnesium chloride. Multiple transcript variants encoding different isoforms have been found for this gene.

**Storage**                        The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

**Storage Buffer**                1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

### GENE INFORMATION

**Gene Name**                    DGAT2 diacylglycerol O-acyltransferase 2 [ Homo sapiens ]

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<b>Official Symbol</b>	DGAT2
<b>Synonyms</b>	DGAT2; diacylglycerol O-acyltransferase 2; diacylglycerol O acyltransferase homolog 2 (mouse); diglyceride acyltransferase 2; diacylglycerol O-acyltransferase homolog 2; diacylglycerol O-acyltransferase-like protein 2; HMFN1045; GS1999FULL; DKFZp686A15125;
<b>Gene ID</b>	<a href="#">84649</a>
<b>mRNA Refseq</b>	<a href="#">NM_001253891</a>
<b>Protein Refseq</b>	<a href="#">NP_001240820</a>
<b>MIM</b>	<a href="#">606983</a>
<b>UniProt ID</b>	<a href="#">Q96PD7</a>
<b>Chromosome Location</b>	11q13.3
<b>Pathway</b>	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;
<b>Function</b>	2-acylglycerol O-acyltransferase activity; diacylglycerol O-acyltransferase activity; protein homodimerization activity; transferase activity, transferring acyl groups other than amino-acyl groups;

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