

## Recombinant Human DGAT1, GST-tagged

**Cat. No.** DGAT1-23H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | Recombinant Human DGAT1 n was expressed as gst-tagged fusion protein by E.Coli and purified by GSH-sepharose.                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | False                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | 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. |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20 oC. . Repeated freeze-thaw cycles should be avoided.                                                                                                                                                                                                                                               |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100,15%glycerol.                                                                                                                                                                                                                                    |

### GENE INFORMATION

|                  |                                                           |
|------------------|-----------------------------------------------------------|
| <b>Gene Name</b> | DGAT1 diacylglycerol O-acyltransferase 1 [ Homo sapiens ] |
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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b>     | DGAT1                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>            | 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 |
| <b>Gene ID</b>             | 8694                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>         | NM_012079                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | NP_036211                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>                 | 604900                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | O75907                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 8q24.3                                                                                                                                                                                                                                                                                                    |
| <b>Pathway</b>             | Fat digestion and absorption; Fatty acid, triacylglycerol, and ketone body metabolism; Glycerolipid metabolism                                                                                                                                                                                            |
| <b>Function</b>            | diacylglycerol O-acyltransferase activity; protein binding; retinol O-fatty-acyltransferase activity; transferase activity, transferring acyl groups                                                                                                                                                      |