Recombinant Human FADS1, GST-tagged

Cat. No. FADS1-12639H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FADS1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	173-444a.a.
Description	The protein encoded by this gene is a member of the fatty acid desaturase (FADS) gene family. Desaturase enzymes regulate unsaturation of fatty acids through the introduction of double bonds between defined carbons of the fatty acyl chain. FADS family members are considered fusion products composed of an N-terminal cytochrome b5-like domain and a C-terminal multiple membrane-spanning desaturase portion, both of which are characterized by conserved histidine motifs. This gene is clustered with family members FADS1 and FADS2 at 11q12-q13.1; this cluster is thought to have arisen evolutionarily from gene duplication based on its similar exon/intron organization.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

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GENE INFORMATION

Gene Name	FADS1 fatty acid desaturase 1 [Homo sapiens]
Official Symbol	FADS1
Synonyms	FADS1; fatty acid desaturase 1; LLCDL1; D5D; delta 5 desaturase; FADS6; FADSD5; TU12; delta-5 desaturase; delta(5) desaturase; delta-5 fatty acid desaturase; delta(5) fatty acid desaturase; linoleoyl-CoA desaturase (delta-6-desaturase)-like 1; FLJ38956; FLJ90273;
Gene ID	3992
mRNA Refseq	NM_013402
Protein Refseq	NP_037534
MIM	606148
UniProt ID	O60427
Chromosome Location	11q12-q13.1
Pathway	Biosynthesis of unsaturated fatty acids, organism-specific biosystem; Biosynthesis of unsaturated fatty acids, conserved biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; PPARA Activates Gene Expression, organism-specific biosystem; Regulation of Lipid Metabolism by Peroxisome proliferator-activated receptor alpha (PPARalpha), organism-specific biosystem;

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Function	C-5 sterol desaturase activity; heme binding; oxidoreductase activity;

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