

Recombinant Human FADS3

Cat. No. FADS3-28818TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human FADS3 with N terminal proprietary tag. Predicted MW 36.41 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	98 amino acids
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.
Molecular Weight	36.410kDa inclusive of tags
Tissue specificity	Has been found in heart, liver, lung, uterus, and brainstem.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PGAPLPTFCWEQIRAHDPGDKWLVIERRVYDISRWAQRHPGGSRLIGHHGAEDAT DAFRAFHQDLNFVRKFLQPLLIGELAPEEPSQDGPLNAQLVE
Sequence Similarities	Belongs to the fatty acid desaturase family. Contains 1 cytochrome b5 heme-binding domain.

GENE INFORMATION

Gene Name	FADS3 fatty acid desaturase 3 [Homo sapiens]
Official Symbol	FADS3
Synonyms	FADS3; fatty acid desaturase 3; LLCDL3; CYB5RP; delta 9 desaturase;
Gene ID	3995
mRNA Refseq	NM_021727
Protein Refseq	NP_068373
MIM	606150
Uniprot ID	Q9Y5Q0

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Chromosome Location	11q12-q13.1
Pathway	Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Regulation of Lipid Metabolism by Peroxisome proliferator-activated receptor alpha (PPARalpha), organism-specific biosystem;
Function	heme binding; molecular_function; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with oxidation of a pair of donors resulting in the reduction of molecular oxygen to two molecules of water;

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