

Recombinant Full Length Human FADS3 Protein, GST-tagged

Cat. No. FADS3-4437HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FADS3 full-length ORF (NP_068373.1, 1 a.a. - 445 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	445 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. [provided by RefSeq, Jul 2008]
Molecular Mass	77.5 kDa
AA Sequence	MGGVGEPGPREGPAQPGAPLPTFCWEQIRAHDPQGDKWLVIERRVYDISRWAQR HPGGSRLIGHHGAEDATDAFRAFHQDLNFVRKFLQPLLIGELAPEEPSQDGPLNAQL VEDFRALHQAEDMKLFDASPTFFAFLLGHILAMEVLAWLLIYLLGPGWVPSALAAFI LAISQAQSWCLQHDLDGHASIFKKSWWNHVAQKFVMGQLKGFSAHWWNFRHFQHH

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AKPNIFHKDPDVTVAPVFLGESSVEYGKKKRRYLPYNQQHLYFFLIGPPLLTLVNFE
 VENLAYMLVCMQWADLLWAASFYARFFLSYLPFYGVPGVLLFFVAVRVLESHWFV
 WITQMNHIPKEIGHEKHRDWVSSQLAATCNVEPSLFTNWFSGHLNFQIEHHLFPRM
 PRHNYSRVAPLVKSLCAKHGLSYEVKPFLTALVDIVRSLKKSGDIWLDAYLHQ

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; delta-9-desaturase; cytochrome b5-related protein; delta-9 fatty acid desaturase; linoleoyl-CoA desaturase (delta-9-desaturase)-like 3;

Gene ID [3995](#)

mRNA Refseq [NM_021727](#)

Protein Refseq [NP_068373](#)

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MIM	606150
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UniProt ID	Q9Y5Q0
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