Recombinant Full Length Human FADS2 Protein, GST-tagged

Cat. No. FADS2-4436HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FADS2 full-length ORF (NP_004256.1, 1 a.a. - 444 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	444 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 at 11q12-q13.1; this cluster is thought to have arisen evolutionarily from gene duplication based on its similar exon/intron organization. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]
Molecular Mass	78.7 kDa
AA Sequence	MGKGGNQGEGAAEREVSVPTFSWEEIQKHNLRTDRWLVIDRKVYNITKWSIQHPG GQRVIGHYAGEDATDAFRAFHPDLEFVGKFLKPLLIGELAPEEPSQDHGKNSKITED FRALRKTAEDMNLFKTNHVFFLLLLAHIIALESIAWFTVFYFGNGWIPTLITAFVLATSQ

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	AQAGWLQHDYGHLSVYRKPKWNHLVHKFVIGHLKGASANWWNHRHFQHHAKPNI FHKDPDVNMLHVFVLGEWQPIEYGKKKLKYLPYNHQHEYFFLIGPPLLIPMYFQYQII MTMIVHKNWVDLAWAVSYYIRFFITYIPFYGILGALLFLNFIRFLESHWFVWVTQMNHI VMEIDQEAYRDWFSSQLTATCNVEQSFFNDWFSGHLNFQIEHHLFPTMPRHNLHKI APLVKSLCAKHGIEYQEKPLLRALLDIIRSLKKSGKLWLDAYLHK
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	FADS2 fatty acid desaturase 2 [Homo sapiens]
Official Symbol	FADS2
Synonyms	FADS2; fatty acid desaturase 2; LLCDL2; D6D; delta 6 desaturase; DES6; FADSD6; SLL0262; TU13; delta-6 desaturase; delta-6-desaturase; delta(6) desaturase; delta-6 fatty acid desaturase; delta(6) fatty acid desaturase; linoleoyl-CoA desaturase (delta-6-desaturase)-like 2;
Gene ID	9415
mRNA Refseq	NM_004265

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Protein Refseq	NP_004256
MIM	606149
UniProt ID	O95864

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