

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	<p>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]</p>
Molecular Mass	78.7 kDa
AA Sequence	<p>MGKGGNQGEGAAEREVSVP TFSWEEIQKHNLRTDRWLVIDRKVYNITKWSIQHPG GQRVIGHYAGEDATDAFRAFHPDLEFVGKFLKPLLIGELAPEEPSQDHGKNSKITED FRALRKTAEDMNLFKTNHVFFLLLLLAHIIALESIAWFTVFYFGNGWIPTLITAFVLATSQ</p>

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AQAGWLQHDYGHLSVYRKPKWNHLVHKFVIGHLKGASANWWNHRHFQHHAKPNI
 FHKDPDVNMLHVFVLGEWQPIEYGKKKLYLPYNHQHEYFFLIGPPLLIPMYFQYQII
 MTMIVHKNWVDLAWAVSYYIRFFITYIPFYGILGALLFLNFIRFLESHWFVWVTQMNHI
 VMEIDQEAYRDWFSSQLTATCNVEQSFFNDWFSGHLNFQIEHHLFPTMPRHNLHKI
 APLVKSLCAKHGIEYQEKPLLRALLDIIRSLKKSGLWLDAYLHK

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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