

Recombinant Human FADS2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FADS2-6060H Lot. No. (See product label)

SPECIFICATION

Product Overview	FADS2 MS Standard C13 and N15-labeled recombinant protein (NP_004256) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	52.1 kDa
AA Sequence	MGKGGNQGEGAAEREVSVPTFSWEEIQKHNLRTDRWLVIDRKVYNITKWSIQHPG GQRVIGHYAGEDATDAFRAFHPDLEFVGKFLKPLLIGELAPEEPSQDHGKNSKITED FRALRKTAEDMNLFKTNHVFFLLLLLAHIIALESIAWFTVFYFGNGWIPTLITAFVLATSQ AQAGWLQHDYGHLSVYRKPKWNHLVHKFVIGHLKGASANWWNHRHFQHHAKPNI

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FHKDPDVNMLHVFVLGEWQPIEYGGKKLKYLPYNHQHEYFFLIGPPLLIPMYFQYQII
 MTMIVHKNWVDLAWAVSYYIRFFITYIPFYGILGALLFLNFIRFLESHWFVWVTQMNHI
 VMEIDQEAYRDWFSSQLTATCNVEQSFFNDWFSGHLNFQIEHHLFPTMPRHNLHKI
 APLVKSLCAKHGIEYQEKPLLRRALLDIIRSLKSGKLWLDAYLHKTRTRPLEQKLISEE
 DLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [FADS2 fatty acid desaturase 2 \[Homo sapiens \(human\) \]](#)

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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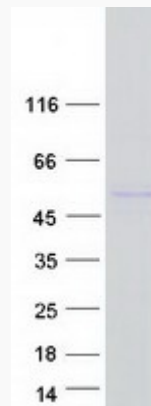
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Protein Refseq NP_004256

MIM 606149

UniProt ID O95864

SDS-PAGE



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