

Recombinant Full Length Human FADS1 Protein, GST-tagged

Cat. No. FADS1-622HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human FADS1(1 a.a. - 444 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
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 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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	74.47 kDa
AA Sequence	MAPDPVAAET AAQGTPRYF TWDEVAQRSG CEERWLVIDR KVYNISEFTR RHPGGSRVIS HYAGQDATDP FVAFHINKGL VKKYMNSLLI GELSPEQPSF

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EPTKNKELTD EFRELRATVE RMGLMKANHV FFLYLLHIL LLDGAAWLTL
 WVFGTSFLPF LLCVLLSAV QAQAGWLQHD FGHLVVFSTS KWNHLLHHFV
 IGHKLGAPAS WVNHMHFQHH AKPNCFRKDP DINMHPFFFA LGKILSVELG
 KQKKKYMPYN HQHKYFFLIG PSALLPLYFQ WYIFYFVIQR KKWVDLAWMI
 TFYVRFFLT YVPLLGLKAFL GLFFIVRFLE SNWFVWVTQM NHIPMHIDHD
 RNMDWVSTQL QATCNVHKSA FNDWFSGHLN FQIEHHLFPT MPRHNYHKVA
 PLVQSLCAKH GIEYQSKPLL SAFADIIHSL KESGQLWLDA YLHQ

Applications

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

Storage

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

GENE INFORMATION

Gene Name

FADS1 fatty acid desaturase 1 [Homo sapiens]

Official Symbol

FADS1

Synonyms

FADS1; fatty acid desaturase 1; LLCDL1; D5D; delta 5 desaturase; FADS6; FADSD5;
 TU12; delta-5 desaturase; delta(5) desaturase; delta-5 fatty acid desaturase; delta(5)
 fatty acid desaturase; linoleoyl-CoA desaturase (delta-6-desaturase)-like 1;
 FLJ38956; FLJ90273

Gene ID

3992

mRNA Refseq

NM_013402

Protein Refseq

NP_037534

MIM

606148

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