

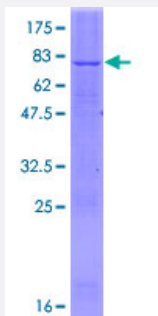
Full-Length

FADS2 (Human) Recombinant Protein (P01)

Catalog # H00009415-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human FADS2 full-length ORF (NP_004256.1, 1 a.a. - 444 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGKGGNQGEAAEREVSVP TFSWEEIQKHNLRTDRWLVIDRKVYNITKWSIQHPGGQRVIGHYAG
EDATDAFRAHPDLEFVGKFLKPLLIGELAPEEPSQDHGKNSKITEDFRALRKTAEDMNLFKTNH
VFFLLLLAHIIALESIAWFTVFYFGNGWIPTLITAFVLATSQAQAGWLQHDYGHLSVYRKPKWNHLVH
KFVIGHLKGASANWWNHRHFQHHAKPNIFHKDPDVNMLHVFLGEWQPIEYGKKKLKYL PYNHQ
HEYFFLIGPPLLIPMYFYQYQIIMTMVHKNWVDLAWAVSYIRFFITYIPFYGILGALLFLNFIRFLESHWF
VWVTQMNHIVMEIDQEAYRDWFSSQLTATCNVEQSFFNDWFSGHLNFQIEHHLFPTMPRHNLHKI
APLVKSLCAKHGIEYQEKPLL RALLDIIRSLKKSGKLWLDAYLHK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

78.7

Interspecies Antigen Sequence

Mouse (87); Rat (88)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — FADS2

Entrez GeneID [9415](#)

GeneBank Accession# [NM_004265.2](#)

Protein Accession# [NP_004256.1](#)

Gene Name FADS2

Gene Alias D6D, DES6, FADSD6, LLCDL2, SLL0262, TU13

Gene Description fatty acid desaturase 2

Omim ID [606149](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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]

Other Designations

delta-6 fatty acid desaturase|delta-6-desaturase|linoleoyl-CoA desaturase (delta-6-desaturase)-like 2

Pathway

- [alpha-Linolenic acid metabolism](#)
- [Biosynthesis of unsaturated fatty acids](#)
- [PPAR signaling pathway](#)

Disease

- [Attention Deficit Disorder with Hyperactivity](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Depression](#)
- [Depressive Disorder](#)
- [Dermatitis](#)
- [Diabetes Mellitus](#)
- [Dyslipidemias](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypersensitivity](#)
- [Inflammation](#)
- [Intelligence Tests](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Rhinitis](#)
- [Syndrome](#)

- [Tobacco Use Disorder](#)