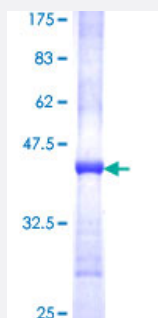


FADS1 (Human) Recombinant Protein (Q01)

Catalog # H00003992-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human FADS1 partial ORF (NP_037534, 1 a.a. - 99 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAPDPVAAETAAQGPTPRYFTWDEVAQRSGCEERWLVIDRKVYNISEFTRRHPGGSRVISHYAG QDATDPFVAFHINKGLVKKYMNSLLIGELSPEQPS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (82); Rat (82)
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 — FADS1

Entrez GeneID [3992](#)

GeneBank Accession# [NM_013402](#)

Protein Accession# [NP_037534](#)

Gene Name FADS1

Gene Alias D5D, FADS6, FADSD5, FLJ38956, FLJ90273, LLCDL1, TU12

Gene Description fatty acid desaturase 1

Omim ID [606148](#)

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(5) desaturase|delta-5 desaturase|delta-5 fatty acid desaturase|linoleoyl-CoA desaturase (delta-6-desaturase)-like 1

Pathway

- [Biosynthesis of unsaturated fatty acids](#)

Disease

- [Attention Deficit Disorder with Hyperactivity](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Coronary Artery Disease](#)
- [Depression](#)
- [Depressive Disorder](#)
- [Dermatitis](#)
- [Diabetes Mellitus](#)
- [Dyslipidemias](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hyperlipidemia](#)
- [Hypersensitivity](#)
- [Inflammation](#)
- [Macular Degeneration](#)
- [Neoplasms](#)
- [Rhinitis](#)
- [Syndrome](#)