

Recombinant Full Length Human FAR1 Protein, GST-tagged

Cat. No. FAR1-4705HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FAR1 full-length ORF (BAG37908.1, 1 a.a. - 515 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	515 amino acids
Description	The protein encoded by this gene is required for the reduction of fatty acids to fatty alcohols, a process that is required for the synthesis of monoesters and ether lipids. NADPH is required as a cofactor in this reaction, and 16-18 carbon saturated and unsaturated fatty acids are the preferred substrate. This is a peroxisomal membrane protein, and studies suggest that the N-terminus contains a large catalytic domain located on the outside of the peroxisome, while the C-terminus is exposed to the matrix of the peroxisome. Studies indicate that the regulation of this protein is dependent on plasmalogen levels. Mutations in this gene have been associated with individuals affected by severe intellectual disability, early-onset epilepsy, microcephaly, congenital cataracts, growth retardation, and spasticity (PMID: 25439727). A pseudogene of this gene is located on chromosome 13. [provided by RefSeq, Jan 2015]
Molecular Mass	85.8 kDa
AA Sequence	MVSIPEYYEGKNVLLTGATGFLGKVLLEKLLRSCPKVNSVYVLVRQKAGQTPQERVE

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EVLSGKLFDRRLRDENPDFREKIIAINSELTQPKLALSEEDKEVIIDSTNIIFHCAATVRFN
 ENLRDAVQLNVIATRQLILLAQQMKNLEVMHVSTAYAYCNRKHIDEVVYPPVDPK
 KLIDSLEWMDDGLVNDITPKLIGDRPNTYIYTKALAEYVVQQEGAKLNVAIVRPSIVGA
 SWKEPFPGWIDNFNGPSGLFIAAGKGILRTIRASNNALADLVPVDVVNMSLAAAWY
 SGVNRPRNIMVYNCTTGSTNPFHWGEVEYHVISTFKRNPLEQAFRRPNVNLTSNHL
 LYHYWIAVSHKAPAFLYDIYLRMTGRSPRMMKTITRLHKAMVFLEYFTSNVWVWNTNTE
 NVNMLMNQLNPEDKKTFNIDVRQLHWAHEYIENYCLGTTKKYVLNEEMSGLPAARKHL
 NKLRNIRYGFNTILVILIWRIFIPRSQMARNIWFVVSCLCYKFLSYFRASSTMRY

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

FAR1 fatty acyl CoA reductase 1 [Homo sapiens]

Official Symbol

FAR1

Synonyms

FAR1; fatty acyl CoA reductase 1; male sterility domain containing 2 , MLSTD2; fatty acyl-CoA reductase 1; FLJ22728; SDR10E1; short chain dehydrogenase/reductase family 10E; member 1; putative fatty acyl reductase; male sterility domain containing 2; male sterility domain-containing protein 2; short chain dehydrogenase/reductase family 10E, member 1; MLSTD2; FLJ33561; DKFZp686A0370; DKFZp686P18247;

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Gene ID	84188
mRNA Refseq	NM_032228
Protein Refseq	NP_115604
MIM	616107
UniProt ID	Q8WVX9

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