

Recombinant Human FADS1 293 Cell Lysate

Cat. No. FADS1-6472HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for fatty acid desaturase 1 (FADS1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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](#)

UniProt ID

[O60427](#)

Chromosome Location

11q12-q13.1

Pathway

Biosynthesis of unsaturated fatty acids, organism-specific biosystem; Biosynthesis of unsaturated fatty acids, conserved biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Metabolism, organism-specific

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biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem;
PPARA Activates Gene Expression, organism-specific biosystem; Regulation of Lipid
Metabolism by Peroxisome proliferator-activated receptor alpha (PPARalpha),
organism-specific biosystem;

Function

C-5 sterol desaturase activity; heme binding; oxidoreductase activity;

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