

Recombinant Human ETFDH 293 Cell Lysate

Cat. No. ETFDH-6530HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for electron-transferring-flavoprotein dehydrogenase (ETFDH), nuclear gene encoding mitochondrial protein 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

ETFDH electron-transferring-flavoprotein dehydrogenase [Homo sapiens]

Official Symbol

ETFDH

Synonyms

ETFDH; electron-transferring-flavoprotein dehydrogenase; electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial; ETFQO; ETF-QO; ETF dehydrogenase; ETF-ubiquinone oxidoreductase; electron transfer flavoprotein ubiquinone oxidoreductase; MADD;

Gene ID

2110

mRNA Refseq

NM_004453

Protein Refseq

NP_004444

MIM

231675

UniProt ID

Q16134

Chromosome Location

4q32-q35

Pathway

Metabolism, organism-specific biosystem; Respiratory electron transport, organism-specific biosystem; Respiratory electron transport, ATP synthesis by chemiosmotic coupling, and heat production by uncoupling proteins., organism-specific biosystem;

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The citric acid (TCA) cycle and respiratory electron transport, organism-specific biosystem;

Function

4 iron, 4 sulfur cluster binding; electron carrier activity; electron-transferring-flavoprotein dehydrogenase activity; flavin adenine dinucleotide binding; metal ion binding; oxidoreductase activity; oxidoreductase activity, oxidizing metal ions with flavin as acceptor; quinone binding; ubiquinone binding;

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