Electron Transfer Flavoprotein Alpha Poly (ETFalpha) ELISA Kit for Goat

PRODUCT OVERVIEW

Product Name	Electron Transfer Flavoprotein Alpha Polypeptide (ETFalpha), ELISA Kit
Full Product Name	Goat Electron Transfer Flavoprotein Alpha Polypeptide ELISA Kit
Product Gene Name	ETFalpha elisa kit
Species Reactivity	Goat
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	35,080 Da
OMIM	231680
3D Structure	ModBase 3D Structure for P13804
Related Product Information for ETFalpha elisa kit	MBS086396 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Electron Transfer Flavoprotein Alpha Polypeptide (ETFalpha) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ETFalpha. The ELISA analytical biochemical technique of the MBS086396 kit is based on ETFalpha antibody-ETFalpha antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ETFalpha antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ETFalpha. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of ETFalpha elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ETFalpha. It may not necessarily be applicable to this product.

NCBI GI #	4503607
NCBI GeneID	2108
NCBI Accession #	NP_000117.1
UniProt Primary Accession #	P13804
UniProt Secondary Accession #	Q53XN3; B4DT43
UniProt Related Accession #	P13804
GenBank Nucleotide #	NM_000126.3
NCBI Official Full Name	electron transfer flavoprotein subunit alpha, mitochondrial isoform a
NCBI Official Synonym Full Names	electron-transfer-flavoprotein, alpha polypeptide
NCBI Official Symbol	ETFA
NCBI Official Synonym Symbols	EMA; GA2; MADD
UniProt Protein Name	Electron transfer flavoprotein subunit alpha, mitochondrial
UniProt Gene Name	ETFA

UniProt Synonym Gene Names	Alpha-ETF
UniProt Entry Name	ETFA_HUMAN
NCBI Protein Information	electron transfer flavoprotein subunit alpha, mitochondrial; alpha-ETF; glutaric aciduria II; electron transfer flavoprotein alpha-subunit; electron transfer flavoprotein, alpha polypeptide
NCBI Summary for ETFalpha	ETFA participates in catalyzing the initial step of the mitochondrial fatty acid beta-oxidation. It shuttles electrons between primary flavoprotein dehydrogenases and the membrane-bound electron transfer flavoprotein ubiquinone oxidoreductase. Defects in electron-transfer-flavoprotein have been implicated in type II glutaricaciduria in which multiple acyl-CoA dehydrogenase deficiencies result in large excretion of glutaric, lactic, ethylmalonic, butyric, isobutyric, 2-methyl-butyric, and isovaleric acids. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for ETFalpha	ETFA: The electron transfer flavoprotein serves as a specific electron acceptor for several dehydrogenases, including five acyl- CoA dehydrogenases, glutaryl-CoA and sarcosine dehydrogenase. It transfers the electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (ETF dehydrogenase). Defects in ETFA are the cause of glutaric aciduria type 2A (GA2A); also known as glutaricaciduria IIA. GA2A is an autosomal recessively inherited disorder of fatty acid, amino acid, and choline metabolism. It is characterized by multiple acyl-CoA dehydrogenase deficiencies resulting in large excretion not only of glutaric acid, but also of lactic, ethylmalonic, butyric, isobutyric, 2-methyl-butyric, and isovaleric acids. Belongs to the ETF alpha-subunit/FixB family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Mitochondrial Chromosomal Location of Human Ortholog: 15q23-q25 Cellular Component: mitochondrion; mitochondrial matrix Molecular Function: FAD binding; electron carrier activity; oxidoreductase activity Biological Process: cellular metabolic process Disease: Multiple Acyl-coa Dehydrogenase Deficiency
Research Articles on ETFalpha	**1.** the mechanism of tert-butyl hydroperoxide-induced an apoptosis cascade and endoplasmic reticulum stress in hepatocyte cells by up-regulation of ETFA, providing a new mechanism for liver injury.
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