

Recombinant Human ETFA, His-tagged

Cat. No. ETFA-28858TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-284 of Human MADD with N terminal His Tag; Predicted MWt 31 kDa.
Species	Human
Source	E.coli
ProteinLength	1-284 a.a.
Description	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-butyrac, and isovaleric acids. Two transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 88 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	MFRAAAPGQLRRAVAQDLCKVAGIAKVLVAQHVDVYKGLLP EELTPLILATQKQFNVT HICAGASAFGKNLLPRVAAKL EVAPISDIIAIKSPDTFVRTIYAGNALCTVKCDEKVKV FSVRGTSFDAAATSGGSASSEKASSTSPVEISEWLDQKLT KSDRPELTGAKVVVSG GRGLKSGENFKLLYDLADQLHA AVGASRAAVDAGFVPNDMQVGQTGKIVAPELYIA VGIS GAIQHLAGMKDSKTIVAINKDPEAPIFQVADYGIVADL FKVVPEMTEILKKK
Sequence Similarities	Belongs to the ETF alpha-subunit/fixB family.
Full Length	Full L.
GENE INFORMATION	
Gene Name	ETF α electron-transfer-flavoprotein, alpha polypeptide [Homo sapiens]
Official Symbol	ETF α
Synonyms	ETF α ; electron-transfer-flavoprotein, alpha polypeptide; electron transfer flavoprotein subunit alpha, mitochondrial; EMA; GA2; glutaric aciduria II; MADD;
Gene ID	2108
mRNA Refseq	NM_000126
Protein Refseq	NP_000117
MIM	608053
Uniprot ID	P13804
Chromosome Location	15q23-q25

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

Function

electron carrier activity; flavin adenine dinucleotide binding; oxidoreductase activity;

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