Recombinant human ECI1, His-tagged

Cat. No. ECI1-2445H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ECI1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	ECI1 is a member of the hydratase/isomerase superfamily. The protein is a key mitochondrial enzyme involved in beta-oxidation of unsaturated fatty acids. It catalyzes the transformation of 3-cis and 3-trans-enoyl-CoA esters arising during the stepwise degradation of cis-, mono-, and polyunsaturated fatty acids to the 2-trans-enoyl-CoA intermediates. Alternatively spliced transcript variants have been described.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	31.1 kDa (284aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSFGSQRVL VEPDAGAGVA VMKFKNPPVN SLSLEFLTEL VISLEKLEND KSFRGVILTS DRPGVFSAGL DLTEMCGRSP AHYAGYWKAV QELWLRLYQS NLVLVSAING ACPAGGCLVA LTCDYRILAD NPRYCIGLNE TQLGIIAPFW LKDTLENTIG HRAAERALQL GLLFPPAEAL QVGIVDQVVP EEQVQSTALS AIAQWMAIPD HARQLTKAMM RKATASRLVT QRDADVQNFV SFISKDSIQK SLQMYLERLK EEKG

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Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	ECI1 enoyl-CoA delta isomerase 1 [Homo sapiens]
Official Symbol	ECI1
Synonyms	ECI1; enoyl-CoA delta isomerase 1; DCI, dodecenoyl CoA isomerase , dodecenoyl Coenzyme A delta isomerase (3,2 trans enoyl Coenzyme A isomerase); enoyl-CoA delta isomerase 1, mitochondrial; 3; 2 trans enoyl CoA isomerase; dodecenoyl-CoA isomerase; D3,D2-enoyl-CoA isomerase; acetylene-allene isomerase; 3,2 trans-enoyl-CoA isomerase; delta3, delta2-enoyl-CoA isomerase; 3,2 trans-enoyl-Coenzyme A isomerase; delta(3),Delta(2)-enoyl-CoA isomerase; 3,2-trans-enoyl-CoA isomerase, mitochondrial; dodecenoyl-CoA delta isomerase (3,2 trans-enoyl-CoA isomerase); dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase); DCI;
Gene ID	1632
mRNA Refseq	NM_001178029
Protein Refseq	NP_001171500

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MIM	600305
UniProt ID	P42126
Chromosome Location	16p13.3
Pathway	Fatty Acid Beta Oxidation, organism-specific biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Mitochondrial Fatty Acid Beta-Oxidation, organism-specific biosystem;
Function	dodecenoyl-CoA delta-isomerase activity; dodecenoyl-CoA delta-isomerase activity; identical protein binding; intramolecular oxidoreductase activity;

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