

Recombinant human DCI/ECI1 protein

Catalog Number: ATGP2445

PRODUCT INFORMATION

Expression system

E.coli

Domain

42-302aa

UniProt No.

P42126

NCBI Accession No.

NP_001910

Alternative Names

Enoyl-CoA delta isomerase 1, DCI, 3,2-trans-enoil-CoA isomerase, Delta(3),Delta(2)-enoil-CoA isomerase, D3,D2-enoil-CoA isomerase, Dodecenoyl-CoA isomerase

PRODUCT SPECIFICATION

Molecular Weight

31.1 kDa (284aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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-enoil-CoA esters arising during the stepwise degradation of cis-, mono-, and polyunsaturated fatty acids to the 2-trans-enoil-CoA intermediates. Alternatively spliced transcript variants have been described. Recombinant human ECI1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography

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techniques.

Amino acid Sequence

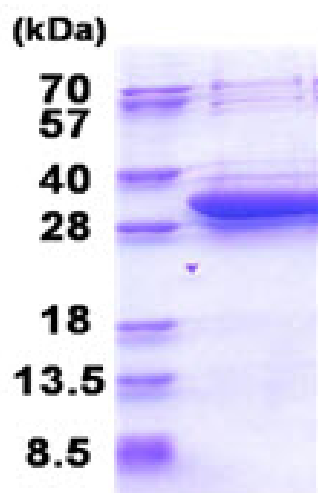
MGSSHHHHHHH SGLVPRGSH MGSFGSQRVL VEPDAGAGVA VMKFKNPPVN SLSLEFLTEL VISLEKLEND KSFRGVILTS
DRPGVFSAGL DLTEMCGRSP AHYAGYWKAV QELWLRLYQS NLVLVSAING ACPAGGCLVA LTCDYRILAD NPRYCIGLNE
TQLGIIAPFW LKDTLENTIG HRAAERALQL GLLFPPAEAL QVGIVDQVVP EEQVQSTALS AIAQWMAIPD HARQLTKAMM
RKATASRLVT QRDADVQNFV SFISKDSIQK SLQMYLERLK EEKG

General References

Janssen u., et al (1994). Genomics 23:223-228
Takahashi Y., et al (1994). Biochem. J. 304:849-852

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)