

# Product information



**ECI1, 42-302 aa**

**Human, His-tagged, Recombinant, *E.coli***

**Cat. No. IBATGP2445**

**Full name:** enoyl-CoA delta isomerase 1

**NCBI Accession No.:** NP\_001910

**Synonym:** DCI

**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 techniques.

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

**Molecular Weight:** 31.1 kDa (284aa), confirmed by MALDI-TOF

**Purity:** > 90% by SDS - PAGE

**Concentration:** 0.25 mg/ml (determined by Bradford assay)

(kDa)

70

57

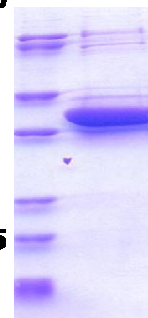
40

28

18

13.5

8.5



15% SDS-PAGE (3ug)

**Sequences of amino acids:**

MGSSHHHHHH SSGLVPRGSH MGSFGSQRVL VEPDAGAGVA VMKFNPPVN SLSLEFLTEL VISLEKLEND KSFRGVILTS DRPGVFSAGL  
DLTEMCGRSP AHYAGYWKAV QELWLRLYQS NLVLVSAING ACPAGGCLVA LTCDYRILAD NPRYCIGLNE TQLGIAPFW LKDTLENTIG  
HRAAERALQL GLLFPPEAL 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

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



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