

Recombinant Human Enoyl CoA Hydratase 1, Peroxisomal, His-tagged

Cat. No. ECH1-2812H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ECH1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 34.4kDa (316aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
ProteinLength	34-328 aa
Description	ECH1 (enoyl coenzyme A hydratase 1) belongs to the hydratase/isomerase superfamily. This Protein shows high sequence similarity to enoyl-coenzyme A (CoA) hydratases of several species, particularly within a conserved domain characteristic of these proteins. It contains a C-terminal peroxisomal targeting sequence, localizes to both the peroxisome and the mitochondria. This enzyme involved in the auxiliary step of the fatty acid beta-oxidation pathway specifically functioning to catalyze the isomerization of 3-trans, 5-cis-dienoyl-CoA to 2-trans, 4-transdienoyl-CoA.
Sequences Of Amino Acids	MGSSHHHHHH SSSLVPRGSH MTGSSAQEAA SGVALGEAPD HSYESLRVTS AQKHVLHVQL NRPNKRNAMN KVFWRMVEC FNKISRADC RAVVISGAGK MFTAGIDLMD MASDILQPKG DDVARISWYL RDIITRYQET FNVIERC PKP VIAAVHGGCI GGGVDLVTAC DIRYCAQDAF FQVKEVDVGL AADVGT LQRL PKVIGNQSLV NELAFTARKM MADEALGSGL VSRVFPDKEV MLDAALALAA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EISSKSPVAV QSTKVNLLYS RDHSVAESLN YVASWNMSML QTQDLVKSVQ
ATTENKELKT VTFSKL

Purity > 90% by SDS – PAGE.

Form Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT, 50mM NaCl.

Concentration 1mg/ml (determined by Bradford assay).

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.

GENE INFORMATION

Gene Name [ECH1 enoyl CoA hydratase 1, peroxisomal \[Homo sapiens \]](#)

Synonyms ECH1; enoyl CoA hydratase 1, peroxisomal; HPXEL; delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial; dienoyl-CoA isomerase; peroxisomal enoyl-CoA hydratase 1; delta3,5-delta2,4-dienoyl-CoA isomerase; enoyl Coenzyme A hydratase 1, peroxisomal; EC 5.3.3.-

Gene ID [1891](#)

mRNA Refseq [NM_001398](#)

Protein Refseq [NP_001389](#)

MIM [600696](#)

UniProt ID [Q13011](#)

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Chromosome Location	19q13.1
Pathway	Peroxisome
Function	enoyl-CoA hydratase activity; isomerase activity; protein binding

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