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 SSGLVPRGSH MTGSSAQEAA SGVALGEAPD HSYESLRVTS AQKHVLHVQL NRPNKRNAMN KVFWREMVEC FNKISRDADC RAVVISGAGK MFTAGIDLMD MASDILQPKG DDVARISWYL RDIITRYQET FNVIERCPKP VIAAVHGGCI GGGVDLVTAC DIRYCAQDAF FQVKEVDVGL AADVGTLQRL PKVIGNQSLV NELAFTARKM MADEALGSGL VSRVFPDKEV MLDAALALAA

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	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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