

Recombinant Human ECH1, His-tagged

Cat. No. ECH1-28224TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human ECH1, amino acids 34-328 with N terminal His tag; 316 amino acids with a predicted MWt 34.4 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	295 amino acids
Description	This gene encodes a member of the hydratase/isomerase superfamily. The gene product shows high sequence similarity to enoyl-coenzyme A (CoA) hydratases of several species, particularly within a conserved domain characteristic of these proteins. The encoded protein, which contains a C-terminal peroxisomal targeting sequence, localizes to the peroxisome. The rat ortholog, which localizes to the matrix of both the peroxisome and mitochondria, can isomerize 3-trans,5-cis-dienoyl-CoA to 2-trans,4-trans-dienoyl-CoA, indicating that it is a delta3,5-delta2,4-dienoyl-CoA isomerase. This enzyme functions in the auxiliary step of the fatty acid beta-oxidation pathway. Expression of the rat gene is induced by peroxisome proliferators.
Conjugation	HIS
Molecular Weight	34.400kDa inclusive of tags
Form	Liquid

 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

Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 50mM Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMTGSSAQEAASGVALGEAPDHSYESLRVTSAQKH VLHVQLNRPNKRNAMNKVFWREMVCEFNKISRADCRAVVISGAGKMFTAGIDLMD MASDILQPKGDDVARISWYLRDIITRYQETFNVIERCPKPVIAAVHGGCIGGGVDLVT ACDIRYCAQDAFFQVKEVDVGLAADVGTLQRLPKVIGNQSLVNELAFTARKMMADE ALGSGLVSRVFPDKEVMLDAALALAAEISSKSPVAVQSTKVNLLYSRDHSAESLNY VASWNMSMLQTQDLVKSQATTENKELKTVTF SKL
Sequence Similarities	Belongs to the enoyl-CoA hydratase/isomerase family.

GENE INFORMATION

Gene Name	ECH1 enoyl CoA hydratase 1, peroxisomal [Homo sapiens]
Official Symbol	ECH1
Synonyms	ECH1; enoyl CoA hydratase 1, peroxisomal; enoyl Coenzyme A hydratase 1, peroxisomal; delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial; HPXEL;
Gene ID	1891
mRNA Refseq	NM_001398

 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

Protein Refseq	NP_001389
MIM	600696
Uniprot ID	Q13011
Chromosome Location	19q13.1
Pathway	Fatty Acid Biosynthesis, organism-specific biosystem; Peroxisome, organism-specific biosystem; Peroxisome, conserved biosystem;
Function	enoyl-CoA hydratase activity; isomerase activity; protein binding;

 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