

## Recombinant Human ECH1, His-tagged

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

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | 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.  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | E.coli  |
| <b>ProteinLength</b>    | 295 amino acids   |
| <b>Description</b>      | 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. |
| <b>Conjugation</b>      | HIS   |
| <b>Molecular Weight</b> | 34.400kDa inclusive of tags   |
| <b>Form</b>             | Liquid  |

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|                                 |  |
|---------------------------------|--|
| <b>Purity</b>                   | >90% by SDS-PAGE   |
| <b>Storage buffer</b>           | Preservative: None<br>Constituents: 10% Glycerol, 50mM Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0   |
| <b>Storage</b>                  | Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.  |
| <b>Sequences of amino acids</b> | MGSSHHHHHSSGLVPRGSHMTGSSAQEAASGVALGEAPDHSYESLRVTSQKH<br>VLHVQLNRPNKRNAMNKVFWREMVCEFNKISRDCRAVVISGAGKMFTAGIDLMD<br>MASDILQPKGDDVARISWYL RDIITRYQETFNVIERCPKPVIAAVHGGCIGGGVDLVT<br>ACDIRYCAQDAFFQVKEVDVGLAADVGT LQRLPKVIGNQSLVNELAFTARKMMADE<br>ALGSGLVSRVFPDKEVMLDAALALAAEISSKSPVAVQSTKVNLLYSRDHLSVAESLNY<br>VASWNMSMLQTQDLVKS VQATTENKELKTVTFSKL |
| <b>Sequence Similarities</b>    | Belongs to the enoyl-CoA hydratase/isomerase family.   |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | <a href="#">ECH1 enoyl CoA hydratase 1, peroxisomal [ Homo sapiens ]</a>  |
| <b>Official Symbol</b> | <a href="#">ECH1</a>  |
| <b>Synonyms</b>        | ECH1; enoyl CoA hydratase 1, peroxisomal; enoyl Coenzyme A hydratase 1, peroxisomal; delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial; HPXEL; |
| <b>Gene ID</b>         | <a href="#">1891</a>  |
| <b>mRNA Refseq</b>     | <a href="#">NM_001398</a>   |

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

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