

Recombinant Full Length Human ECH1 Protein, GST-tagged

Cat. No. ECH1-4161HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ECH1 full-length ORF (NP_001389.2, 1 a.a. - 328 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	328 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. [provided by RefSeq, Jul 2008]
Molecular Mass	62.2 kDa
AA Sequence	MAAGIVASRRRLRDLTRRLTGSNYPGLSISLRLTGSSAQEEASGVALGEAPDHSYES LRVTS AQKHVLHVQLNRPNKRNAMNKVFWREMVECFNKISR DADCRAVVISGAGK MFTAGIDLMDMASDILQPKGDDVARISWYL RDIITRYQETFNVIERCPKPVIAAVHGG

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CIGGGVDLVTACDIRYCAQDAFFQVKEVDVGLAADVGTQLRQPKVIGNQSLVNELAF
TARKMMADEALGSGLSRVFPDKEVMLDAALALAAEISSKSPVAVQSTKVNLLYSRD
HSVAESLNYVASWNMSMLQTQDLVKSQATTENKELKTVTFSKL

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; dienoyl-CoA isomerase; peroxisomal enoyl-CoA hydratase 1; delta3,5-delta2,4-dienoyl-CoA isomerase;

Gene ID

[1891](#)

mRNA Refseq

[NM_001398](#)

Protein Refseq

[NP_001389](#)

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MIM	600696
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UniProt ID	Q13011
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