

# Recombinant Full Length Human ECH1 Protein, GST-tagged

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

## SPECIFICATION

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

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CIGGGVDLVTACDIRYCAQDAFFQVKEVDVGLAADVGTLQRLPKVIGNQSLVNELAF  
 TARKMMADEALGSGLVSRVFPDKEVMLDAALALAAEISSKSPVAVQSTKVNLLYSRD  
 HSVAESLNYVASWNMSMLQTQDLVKSVQATTENKELKTVTFSKL

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## 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; dienoyl-CoA isomerase; peroxisomal enoyl-CoA hydratase 1; delta3,5-delta2,4-dienoyl-CoA isomerase;
<b>Gene ID</b>	<a href="#">1891</a>
<b>mRNA Refseq</b>	<a href="#">NM_001398</a>
<b>Protein Refseq</b>	<a href="#">NP_001389</a>

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<b>MIM</b>	600696
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<b>UniProt ID</b>	Q13011
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