

Recombinant Human ECH1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ECH1-2849H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ECH1 MS Standard C13 and N15-labeled recombinant protein (NP_001389) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	35.8 kDa
AA Sequence	MAAGIVASRRLRDLLTRRLTGSNYPGLSISLRLTGSSAQEAASGVALGEAPDHSYES LRV TSAQKHV LHVQLNRP NKR NAMNKVFWREMVECFNKISR DADCRAVVISGAGK MFTAGIDLMDMASDILQPKGDDVARISWYLRDIITRYQETFNVIERC PKPVIAAVHGG CIGGGVDLVTACDIRYCAQDAFFQVKEVDVGLAADVGT LQRLPKVIGNQSLVNELAF

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TARKMMADEALGSGLVSRVFPDKEVMLDAALALAAEISSKSPVAVQSTKVNLLYSRD
 HSVAESLNYVASWNMSMLQTQDLVKSQATTENKELKTVTFSKLTRTRPLEQKLISE
 EDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ECH1 enoyl-CoA hydratase 1 [Homo sapiens (human)]

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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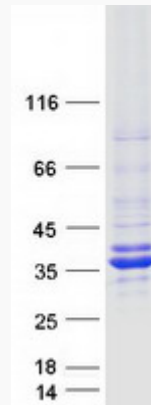
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MIM 600696

UniProt ID Q13011

SDS-PAGE



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