

Recombinant Human ECH1, GST-tagged

Cat. No. ECH1-12267H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ECH1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-328a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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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
MIM	600696
UniProt ID	Q13011
Chromosome Location	19q13.1
Pathway	Fatty Acid Biosynthesis, organism-specific biosystem; Peroxisome, organism-specific biosystem; Peroxisome, conserved biosystem;
Function	isomerase activity; protein binding;

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