



# Recombinant Human Delta (3,5)-Delta (2,4)-dienoyl-CoA isomerase, mitochondrial (ECH1)

<b>Product Code</b>	CSB-YP621643HU
<b>Abbreviation</b>	ECH1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q13011
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	TGSSAQE EASGVALGEA PDHSYESLRV TSAQKHVLHV QLNRPNKRNA MKNVFWREMV ECFNKISRDA DCRAVVISGA GKMFTAGIDL MDMASDILQP KGDDVARISW YLRDIITRYQ ETFNVIERCP KPVIAAVHGG CIGGGVDLVT ACDIRYCAQD AFFQVKEVDV GLAADVGTLLQ RLPKVIGNQS LVNELAFTAR KMMADEALGS GLVSRVFPDK EVMLDAALAL AAEISSKSPV AVQSTKVLL YSRDHVAES LNYVASWNMS MLQTQDLVKS VQATTENKEL KTVTFSKL
<b>Source</b>	Yeast
<b>Target Names</b>	ECH1
<b>Protein Names</b>	Recommended name: Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial EC= 5.3.3.-
<b>Expression Region</b>	34-328
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</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>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a



concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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