



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

Product Code	CSB-EP621643HU-B
Abbreviation	ECH1
Storage	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.
Uniprot No.	Q13011
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	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
Source	E.coli
Target Names	ECH1
Protein Names	Recommended name: Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial EC= 5.3.3.-
Expression Region	34-328
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
Reconstitution	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.

Shelf Life

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