



# Recombinant Protein Technical Manual

## Recombinant Human ECH1 Protein

RPES3719

### Product Data:

**Product SKU:** RPES3719

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q13011

### Protein Information:

**Molecular Mass:** 34.5 kDa

**AP Molecular Mass:** 30-35 kDa

**Tag:** N-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM Tris, 100mM NaCl, 10% Glycerol, pH 8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase; mitochondrial; ECH1;

## Immunogen Information:

**Sequence:** Thr34-Leu328

## Background:

Human delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase(ECH1) is a member of the hydratase/isomerase superfamily and contains a C-terminal peroxisomal targeting sequence and localizes to peroxisomes. ECH1 shows high sequence similarity to enoyl-CoA hydratases of several species, particularly within a conserved domain characteristic of these proteins. The rat ortholog localizes to the matrix of both the peroxisome and mitochondria. It 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. ECH1 plays an important role in the auxiliary step of the fatty acid beta-oxidation pathway.