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# Recombinant human ECH1 protein

Catalog Number: ATGP0711

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

34-328aa

# **UniProt No.**

013011

#### **NCBI Accession No.**

AAH17408

### **Alternative Names**

enoyl Coenzyme A hydratase 1 peroxisomal, enoyl Coenzyme A hydratase 1 peroxisomal, HPXEL

# **PRODUCT SPECIFICATION**

# **Molecular Weight**

34.4 kDa (316aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 50mM NaCl

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

### **Description**

ECH1 (enoyl coenzyme A hydratase 1) belongs to the hydratase/isomerase superfamily. This Protein shows high sequence similarity to enoyl-coenzyme A (CoA) hydratases of several species, particularly within a conserved domain characteristic of these proteins. It contains a C-terminal peroxisomal targeting sequence, localizes to both the peroxisome and the mitochondria. This enzyme involved in the auxiliary step of the fatty acid beta-oxidation pathway specifically functioning to catalyze the isomerization of 3-trans, 5-cis-dienoyl-CoA to 2-trans, 4-transdienoyl-CoA. Recombinant human ECH1 protein, fused to His-tag at N-terminus, was expressed in E. coli



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and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

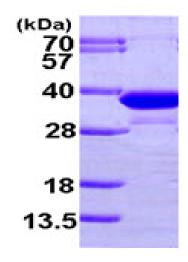
MGSSHHHHHH SSGLVPRGSH MTGSSAQEAA SGVALGEAPD HSYESLRVTS AQKHVLHVQL NRPNKRNAMN KVFWREMVEC FNKISRDADC RAVVISGAGK MFTAGIDLMD MASDILQPKG DDVARISWYL RDIITRYQET FNVIERCPKP VIAAVHGGCI GGGVDLVTAC DIRYCAQDAF FQVKEVDVGL AADVGTLQRL PKVIGNQSLV NELAFTARKM MADEALGSGL VSRVFPDKEV MLDAALALAA EISSKSPVAV QSTKVNLLYS RDHSVAESLN YVASWNMSML QTQDLVKSVQ ATTENKELKT VTFSKL

# **General References**

Goehler H., et al. (2004) Mol. Cell 15(6):853-65. FitzPatrick DR., et al. (1995) Genomics 27(3):457-66.

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)