

## ECH1 Human

**Description:** ECH1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 316 amino acids (34-328a.a.) and having a molecular mass of 34.4kDa. ECH1 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-569

For research use only.

**Synonyms:** peroxisomal, enoyl Coenzyme A hydratase 1.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHH SSGLVPRGSH MTGSSAQEAA SGVALGEAPD  
HSYESLRVTS AQKHVLHVQL NRPNKRNAMN KVFWRMVEC FNKISRADC RAVVISGAGK  
MFTAGIDLMD MASDILQPKG DDVARISWYL RDIITRYQET FNVIERCPKP VIAAVHGGCI  
GGGVDLVTAC DIRYCAQDAF FQVKEVDVGL AADVGTQLRL PKVIGNQSLV NELAFTARKM  
MADEALGSGS VS

**Purity:** Greater than 90% as determined by SDS-PAGE.

### Formulation:

The ECH1 protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 1mM DTT, 50mM NaCl, and 10% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

ECH1 is a member of the hydratase/isomerase superfamily. ECH1 demonstrates high sequence similarity to enoyl-coenzyme A (CoA) hydratases of more than a few species, mostly within a conserved domain characteristic of these proteins. ECH1 contains a C-terminal peroxisomal targeting sequence, localizes to both the peroxisome and the mitochondria. peroxisomal takes part 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.

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