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## Product Data Sheet

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Product Name: ECH1 Human  
 Cat. No.: GP21589  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	peroxisomal; enoyl Coenzyme A hydratase 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MTGSSAQEAA SGVALGEAPD HSYESLRVTS AQKHLHVQL NRPNKRNAMN KFWREMVEC FNKISRADC RAVVISGAGK MFTAGIDLMD MASDILQPKG DDVARISWYL RDIITRYQET FNVIERCPKP VIAAVHGGCI GGGVDLVTAC DIRYCAQDAF FQVKEVDVGL AADVGTQLQRL PKVIGNQSLV NELAFTARKM MADEALGSGL VSRVFPDKEV MLDAALALAA EISSKSPVAV QSTKVNLLYS RDHSVAESLN YVASWNMSML QTQDLVKSVQ ATTENKELKT VTFSKL.		
Formulation	The ECH1 protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 1mM DTT, 50mM NaCl, and 10% glycerol.		

### 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.

### 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.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

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