
Product Data Sheet

Product Name: ECHS1 Human, Active
 Cat. No.: GP21592
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Enoyl-CoA Hydratase; Short Chain1; Enoyl Coenzyme A Hydratase; Short Chain; 1; Mitochondrial; Enoyl-CoA Hydratase; Short Chain; 1; Mitochondrial; Short Chain Enoyl-CoA Hydratase; EC 4.2.1.17; SCEH; Enoyl-CoA Hydratase; Mitochondrial; Short-Chain Enoyl-CoA Hydratase; Enoyl-CoA Hydratase 1; EC 4.2.1; ECHS1D; ECHS1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MASGANFEYI IAEKRGKNNT VGLIQLNRPK ALNALCDGLI DELNQALKIF EEDPAVGAI V LTGGDKAF AA GADIKEMQNL SFQDCYSSKF LKHWDHLTQV KKPVIAAVNG YAFGGGCELA MMCDIYAGE KAQFAQPEIL IGTIPGAGGT QRLTRAVGKS LAMEMVLTGD RISAQDAKQA GLVSKICPVE TLVEEAIQCA EKIASNSKIV VAMAKESVNA AFEMTLTEGS KLEKLFYST FATDDRKEGM TAFVEKRKAN FKDQ.		
Formulation	ECHS1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 20% Glycerol and 100mM NaCl.		

Introduction

ECHS1 is part of the hydratase/isomerase superfamily. ECHS1 is localized in the mitochondrial matrix and Expressed in muscle, liver and fibroblasts, with low expression in kidney and spleen, ECHS1 exists as a homohexamer that takes part in the second phase of the mitochondrial fatty acid β -oxidation pathway.

Biological Activity

Specific activity is > 150 units/mg, and is defined as the amount of enzyme that hydrolyzes 1.0 umole of crotonoyl-CoA to hydroxybutyryl-CoA per minute per minute at pH 7.5 at 25°C.

Stability

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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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

ECHS1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 284 amino acids (28-290 a.a) and having a molecular mass of 30.6kDa. ECHS1 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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