ECHS1, human recombinant

CATALOG NO: P1191-10 10 µg
P1191-50 50 µg

ALTERNATE NAMES: Enoyl Coenzyme A hydratase, short chain 1 mitochondrial, SCEH, Enoyl-CoA hydratase 1, Short-chain enoyl-CoA hydratase

CONCENTRATION: 1 mg/ml (determined by Bradford assay)

SOURCE: *E.coli* (28-290aa)

PURITY: > 95% by SDS-PAGE

MOL. WEIGHT: This protein is fused with 6x His tag at N terminus and the protein has a calculated MW of 30.6 kDa (284aa)

FORM: Liquid

FORMULATION: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 20% glycerol, 100 mM NaCl

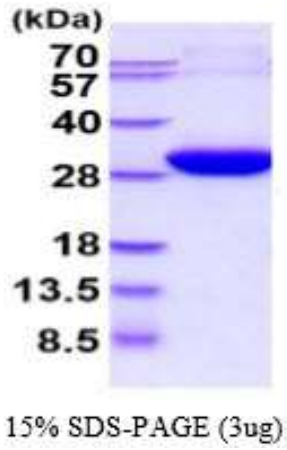
STORAGE CONDITIONS: Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -20°C and -70°C. Avoid repeated freeze/thaw cycles.

SEQUENCE:

MGSSHHHHHH SSGLVPRGSH MASGANFEYI IAEKRGKNNT VGLIQLNRPK ALNALCDGLI DELNQALKIF EEDPAVGAIV LTGGDKAFAA GADIKEMQNL SFQDCYSSKF LKHWDHLTQV KKPVIAAVNG YAFGGGCELA MMCDIIYAGE KAQFAQPEIL IGTIPGAGGT QRLTRAVGKS LAMEMVLTGD RISAQDAKQA GLVSKICPVE TLVEEAIQCA EKIASNSKIV VAMAKESVNA AFEMTLTEGS KLEKKLFYST FATDDRKEGM TAFVEKRKAN FKDQ

DESCRIPTION: Enoyl Coenzyme A hydratase, short chain 1 mitochondrial, also known as ECHS1, is a member of the hydratase/isomerase superfamily. It localizes to the mitochondrial matrix. Expressed in muscle, liver and fibroblasts, with low expression in kidney and spleen, ECHS1 exists as a homohexamer that functions in the second step of the mitochondrial fatty acid beta-oxidation pathway. Recombinant human ECHS1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

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



15% SDS-PAGE (3ug)

Human recombinant ECHS1

RELATED PRODUCT:

- Ethanolamine Kinase 2, human recombinant **(Cat. No. P1158)**
- Glucokinase, human liver, recombinant **(Cat. No. 7776)**
- Glucokinase, human pancreatic, recombinant **(Cat. No. 7777)**
- Guanylate kinase, human recombinant **(Cat. No. P1101)**
- Human Recombinant PKLR **(Cat. No. 6373)**
- Human Recombinant PKM2 **(Cat. No. 6372)**
- NAD Kinase, human recombinant **(Cat. No. 7560)**
- NAD Kinase (catalytic domain), human recombinant **(Cat. No. 7559)**
- Human CellExp™ Cathepsin S, human recombinant (**Cat. No. 7277-10**)

FOR RESEARCH USE ONLY! Not to be used on humans.