Recombinant human ECHS1 protein

Catalog Number: ATGP3567

PRODUCT INFORMATION

Expression system
E.coli

Domain
28-290aa

UniProt No.
P30084

NCBI Accession No.
AAH08906

Alternative Names
Enoyl Coenzyme A hydratase, short chain 1 mitochondrial, SCEH

PRODUCT SPECIFICATION

Molecular Weight
30.6 kDa (284aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 100mM NaCl

Purity
> 95% by SDS-PAGE

Biological Activity
Specific activity is > 150unit/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.

Tag
His-Tag

Application
Enzyme Activity,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
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

Recombinant human ECHS1 protein

Catalog Number: ATGP3567

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.

Amino acid Sequence

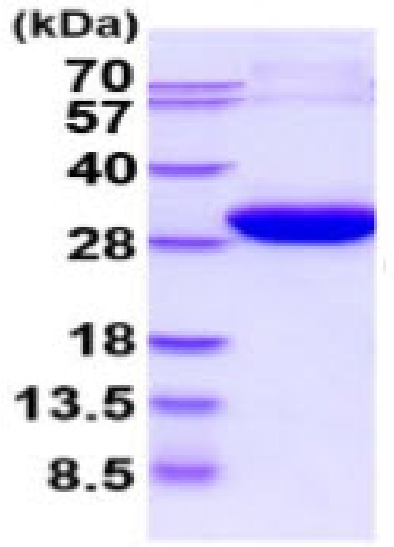
MGSSHHHHHH SSGLVPRGSH MASGANFEYI IAEKRGKNNT VGLIQLNRPK ALNALCDGLI DELNQALKIF EEDPAVGAIV LTGGDKAFAA GADIKEMQNL SFQDCYSSKF LKHWDHLTQV KKPVIAAVNG YAFGGGCELA MMCDIIYAGE KAQFAQPEIL IGTIPGAGGT QRLTRAVGKS LAMEMVLTGD RISAQDAKQA GLVSKICPVE TLVEEAIQCA EKIASNSKIV VAMAKESVNA AFEMTLTEGS KLEKKLFYST FATDDRKEGM TAFVEKRKAN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

General References

Kanazawa M., et al. (1993) Enzyme Protein. 47:9-13.
Stern J R., et al. (1956) J Biol Chem. 218:985-1002.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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