

Recombinant human ECHS1 protein

Catalog Number: ATGP0703

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, 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

Tag

His-Tag

Application

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 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.

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Amino acid Sequence

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

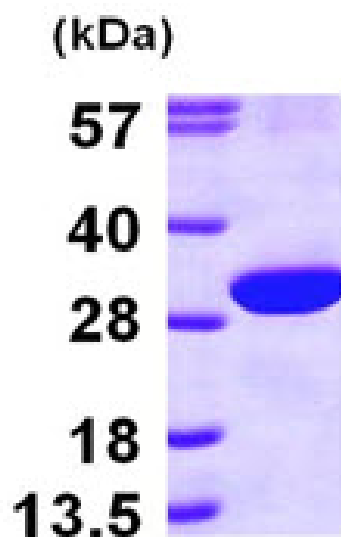
General References

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

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



15% SDS-PAGE (3ug)