Recombinant Human ECHS1, His-tagged

Cat. No. ECHS1-2811H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ECHS1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 30.6 kDa (284aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
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 β-oxidation pathway.
Sequences Of Amino Acids	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
Purity	> 95% by SDS – PAGE.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 100mM NaCl.

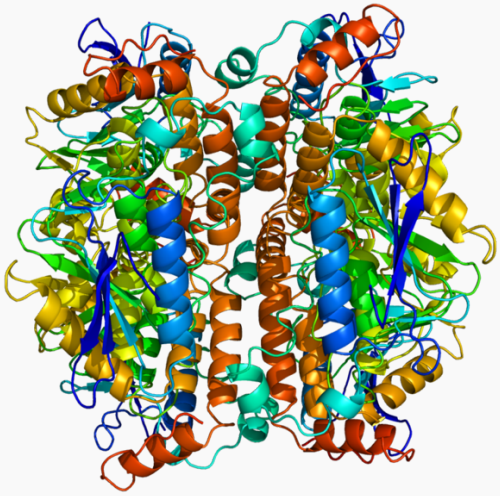
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Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	ECHS1 enoyl CoA hydratase, short chain, 1, mitochondrial [Homo sapiens]
Synonyms	ECHS1; enoyl CoA hydratase, short chain, 1, mitochondrial; SCEH; mitochondrial short-chain enoyl-coenzyme A hydratase 1; EC 4.2.1.17;OTTHUMP00000020811; Enoyl-CoA hydratase 1; Short chain enoyl-CoA hydratase
Gene ID	1892
mRNA Refseq	NM_004092
Protein Refseq	NP_004083
MIM	602292
UniProt ID	P30084
Chromosome Location	10q26.2-q26.3
Pathway	Benzoate degradation via CoA ligation; Butanoate metabolism; Caprolactam degradation; Fatty acid elongation in mitochondria; Fatty acid metabolism; Limonene and pinene degradation; Lysine degradation; Propanoate metabolism; Tryptophan metabolism; Valine, leucine and isoleucine degradation ; beta-Alanine metabolism;Lipid and lipoprotein metabolism; Metabolism of amino acids

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Function	enoyl-CoA hydratase activity; enoyl-CoA hydratase activity; lyase activity; protein binding
PDB rendering based on 1dub.	

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