

Recombinant Human ECHS1, His-tagged

Cat. No. ECHS1-28225TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Mitochondrial ECHS1 with an N terminal His tag ,
Species	Human
Source	E.coli
ProteinLength	263 amino acids
Description	The protein encoded by this gene functions in the second step of the mitochondrial fatty acid beta-oxidation pathway. It catalyzes the hydration of 2-trans-enoyl-coenzyme A (CoA) intermediates to L-3-hydroxyacyl-CoAs. The gene product is a member of the hydratase/isomerase superfamily. It localizes to the mitochondrial matrix. Transcript variants utilizing alternative transcription initiation sites have been described in the literature.
Conjugation	HIS
Molecular Weight	30.600kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 20mM Tris HCl, 100mM Sodium chloride, 1mM DTT, pH 8.0

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	<p>MGSSHHHHHSSGLVPRGSHMASGANFEYIIAEKRGKNNNTVGLIQLNRPKALNALC DGLIDELNQALKIFEEDPAVGAIVLTGGDKAFAAGADIKEMQNLSFQDCYSSKFLKH WDHLTQVKKPVIAAVNGYAFGGGCELAMMCDIYAGEKAQFAQPEILIGTIPGAGGT QRLTRAVGKSLAMEMVLTGDRISAQDAKQAGLVSKICPVETLVEEAIQCAEKIASNSK IVVAMAKESVNAAFEMTLTEGSKLEKLFYSTFATDDRKEGMTAFVEKRKANFKDQ</p>

GENE INFORMATION

Gene Name	ECHS1 enoyl CoA hydratase, short chain, 1, mitochondrial [Homo sapiens]
Official Symbol	ECHS1
Synonyms	ECHS1; enoyl CoA hydratase, short chain, 1, mitochondrial; enoyl Coenzyme A hydratase, short chain, 1, mitochondrial; enoyl-CoA hydratase, mitochondrial; SCEH;
Gene ID	1892
mRNA Refseq	NM_004092
Protein Refseq	NP_004083
MIM	602292
Uniprot ID	P30084
Chromosome Location	10q26.2-q26.3

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Pathway

Beta oxidation of butanoyl-CoA to acetyl-CoA, organism-specific biosystem; Beta oxidation of decanoyl-CoA to octanoyl-CoA-CoA, organism-specific biosystem; Beta oxidation of hexanoyl-CoA to butanoyl-CoA, organism-specific biosystem; Beta oxidation of lauroyl-CoA to decanoyl-CoA-CoA, organism-specific biosystem; Beta oxidation of octanoyl-CoA to hexanoyl-CoA, organism-specific biosystem;

Function

enoyl-CoA hydratase activity; lyase activity; protein binding;

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