

## 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<br>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](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

|                                 |                                                                                                                                                                                                                                                                                                             |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.                                                                                                                                                                                                     |
| <b>Sequences of amino acids</b> | MGSSHHHHHHSSGLVPRGSHMASGANFEYIIAEKRGKNNTVGLIQLNRPKALNALC<br>DGLIDELNQALKIFEEDPAVGAIVLTGGDKAFAAGADIKEMQNLSFQDCYSSKFLKH<br>WDHLTQVKKPVIAAVNGYAFGGGCELAMMCDIYAGEKAQFAQPEILIGTIPGAGGT<br>QRLTRAVGKSLAMEMVLTGDRISAQDAKQAGLVSKICPVETLVEEAIQCAEKIASNSK<br>IVVAMAKESVNAAFEMTLTEGSKLEKKLFYSTFATDDRKEGMTAFVEKRKANFKDQ |

## GENE INFORMATION

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

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

**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;

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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