

# Recombinant Full Length Human ECHS1 Protein, GST-tagged

**Cat. No.** ECHS1-4170HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Human ECHS1 full-length ORF ( AAH08906, 13 a.a. - 290 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 13-290 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | 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. [provided by RefSeq, Jul 2008] |
| <b>Molecular Mass</b>   | 56.32 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | GPLRPPVRCPAWRPFASGANFEYIIAEKRGKNNTVGLIQLNRPKALNALCDGLIDELN<br>QALKIFEEDPAVGAIVLTGGDKAFAAGADIKEMQNLSFQDCYSSKFLKHWDHILTQVK<br>KPVIAAVNGYAFGGGCELAMMCDIYAGEKAQFAQPEILIGTIPGAGGTQRLTRAVGK<br>SLAMEMVLTGDRISAQDAKQAGLVSKICPVETLVEEAIQCAEKIASNSKIVVAMAKES<br>VNAAFEMTLTEGSKLEKKLFYSTFATDDRKEGMTAFVEKRKANFKDQ                                                                                                                                                                                  |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                              |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                  |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                         |
| <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; enoyl-CoA hydratase 1; short-chain enoyl-CoA hydratase; |
| <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                                                                                                                                                                                                                  |

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