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## Datasheet for ABIN7319227

**ECH1 Protein**

## Overview

|               |                            |
|---------------|----------------------------|
| Quantity:     | 50 µg                      |
| Target:       | ECH1                       |
| Origin:       | Human                      |
| Source:       | Escherichia coli (E. coli) |
| Protein Type: | Recombinant                |

## Product Details

|                  |  |
|------------------|--|
| Purpose:         | Recombinant Human ECH1 Protein   |
| Sequence:        | Thr34-Leu328   |
| Characteristics: | Recombinant Human Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial is produced by our E.coli expression system and the target gene encoding Thr34-Leu328 is expressed with a 6His tag at the N-terminus. |
| Purity:          | > 95 % as determined by reducing SDS-PAGE.   |
| Endotoxin Level: | < 1.0 EU per µg as determined by the LAL method.   |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | ECH1   |
| Alternative Name: | ECH1 ( <a href="#">ECH1 Products</a> )   |
| Background:       | Background: Human delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase(ECH1) is a member of the hydratase/isomerase superfamily and contains a C-terminal peroxisomal targeting sequence and localizes to peroxisomes. ECH1 shows high sequence similarity to enoyl-CoA hydratases of |

## Target Details

several species, particularly within a conserved domain characteristic of these proteins. The rat ortholog localizes to the matrix of both the peroxisome and mitochondria. It can isomerize 3-trans, 5-cis-dienoyl-CoA to 2-trans,4-trans-dienoyl-CoA, indicating that it is a delta3,5-delta2,4-dienoyl-CoA isomerase. ECH1 plays an important role in the auxiliary step of the fatty acid beta-oxidation pathway.

Synonym: Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial, ECH1,

|                   |          |
|-------------------|----------|
| Molecular Weight: | 34.5 kDa |
|-------------------|----------|

|          |                        |
|----------|------------------------|
| UniProt: | <a href="#">Q13011</a> |
|----------|------------------------|

|           |   |
|-----------|---|
| Pathways: | <a href="#">Monocarboxylic Acid Catabolic Process</a> |
|-----------|---|

## Application Details

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## Handling

|         |                |
|---------|----------------|
| Format: | Frozen, Liquid |
|---------|----------------|

|         |   |
|---------|---|
| Buffer: | Supplied as a 0.2 µm filtered solution of 20 mM Tris, 100 mM NaCl, 10 % Glycerol, pH 8.0. |
|---------|---|

|          |        |
|----------|--------|
| Storage: | -20 °C |
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|                  |  |
|------------------|--|
| Storage Comment: | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. |
|------------------|--|