

## Recombinant Human MECR, His-tagged

Cat. No. MECR-27385TH Lot. No. (See product label)

### SPECIFICATION

|                           |  |
|---------------------------|--|
| <b>Product Overview</b>   | Recombinant full length Human MECR with N terminal His tag; 341 amino acids with a predicted MWt 36.9kDa including tag.  |
| <b>Species</b>            | Human  |
| <b>Source</b>             | E.coli   |
| <b>ProteinLength</b>      | 320 amino acids  |
| <b>Description</b>        | MECR(Mitochondrial trans-2-enoyl-CoA reductase), also known as NRBF1, catalyzes the reduction of trans-2-enoyl-CoA to acyl-CoA with chain length from C6 to C16 in an NADPH dependent manner with preference to medium chain length substrate. |
| <b>Conjugation</b>        | HIS  |
| <b>Molecular Weight</b>   | 36.900kDa inclusive of tags  |
| <b>Tissue specificity</b> | Highly expressed in skeletal and heart muscle. Expressed at lower level in placenta, liver, kidney and pancreas. Weakly or not expressed in lung.  |
| <b>Form</b>               | Liquid   |
| <b>Purity</b>             | >90% by SDS-PAGE   |
| <b>Storage buffer</b>     | Preservative: None<br>Constituents: 20% Glycerol, 0.2M Sodium chloride, 5mM DTT,   |

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|                                 |   |
|---------------------------------|---|
|                                 | 20mM Tris HCl, pH 8.0   |
| <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> | <p>MGSSHHHHHSSGLVPRGSHMPAKVVELKNLELAAVRGSDVRVKMLAAPINPSDIN<br/> MIQGNYGLLPELPAVGGNEGVAQVAVGNSVTGLKPGDWVIPANAGLGTWRTEAV<br/> FSEEALIQVPSDIPLQSAATLGVNPCTAYRMLMDFEQLQPGDSVIQNASNSGVGQAV<br/> IQIAAALGLRTINVVRDRPDIQKLSDRKLSLGAEHVITEEELRRPEMKNFFKDMPQPR<br/> LALNCVGGKSSTELLRQLARGGTMVYGGMAKQPVVASVLLIFKDLKLRGFWLSQ<br/> WKKDHSPDQFKELILTCLDIRRGQLTAPACSQVPLQDYQSALEASMKPFISSKQILT<br/> M</p> |
| <b>Sequence Similarities</b>    | Belongs to the zinc-containing alcohol dehydrogenase family. Quinone oxidoreductase subfamily.  |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | <a href="#">MECR mitochondrial trans-2-enoyl-CoA reductase [ Homo sapiens ]</a>   |
| <b>Official Symbol</b> | <a href="#">MECR</a>  |
| <b>Synonyms</b>        | MECR; mitochondrial trans-2-enoyl-CoA reductase; trans-2-enoyl-CoA reductase, mitochondrial; CGI 63; FASN2B; mitochondrial 2 enoyl thioester reductase; NRBF1; nuclear receptor binding factor 1; |
| <b>Gene ID</b>         | <a href="#">51102</a>   |
| <b>mRNA Refseq</b>     | <a href="#">NM_016011</a>   |
| <b>Protein Refseq</b>  | <a href="#">NP_057095</a>   |

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|                            |   |
|----------------------------|---|
| <b>MIM</b>                 | 608205  |
| <b>Uniprot ID</b>          | Q9BV79  |
| <b>Chromosome Location</b> | 1pter-p22.3   |
| <b>Pathway</b>             | Fatty Acid Biosynthesis, organism-specific biosystem; Fatty acid biosynthesis, elongation, mitochondria, organism-specific biosystem; Fatty acid biosynthesis, elongation, mitochondria, conserved biosystem; Fatty acid elongation, organism-specific biosystem; Fatty acid elongation, conserved biosystem; |
| <b>Function</b>            | nucleotide binding; oxidoreductase activity; receptor binding; trans-2-enoyl-CoA reductase (NADPH) activity; zinc ion binding;  |

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