

Recombinant Human MECR, His-tagged

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

SPECIFICATION

Product Overview	Recombinant full length Human MECR with N terminal His tag; 341 amino acids with a predicted MWt 36.9kDa including tag.
Species	Human
Source	E.coli
ProteinLength	320 amino acids
Description	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.
Conjugation	HIS
Molecular Weight	36.900kDa inclusive of tags
Tissue specificity	Highly expressed in skeletal and heart muscle. Expressed at lower level in placenta, liver, kidney and pancreas. Weakly or not expressed in lung.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 0.2M Sodium chloride, 5mM DTT,

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	20mM Tris HCl, pH 8.0
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	MGSSHHHHHSSGLVPRGSHMPAKVVELKNELEAAVRGSDVRVKMLAAPINPSDIN MIQGNYGLLPELPAVGGNEGVAQVAVGNSVTGLKPGDWVIPANAGLGTWRTEAV FSEEALIQVPSDIPLQSAATLGVPNCTAYRMLMDFEQLQPGDSVIQNASNSGVGQAV IQIAAALGLRTINVVRDPDIQKLSDRKSLGAEHVITEEELRRPEMKNFFKDMPQPR LALNCVGGKSSTELLRQLARGGTMVTYGGMAKQPVVASVSLIFKDLKLRGFWLSQ WKKDHSPDQFKELILTCLDIRRGQLTAPACSQVPLQDYQSALEASMKPFISSKQILT M
Sequence Similarities	Belongs to the zinc-containing alcohol dehydrogenase family. Quinone oxidoreductase subfamily.

GENE INFORMATION

Gene Name	MECR mitochondrial trans-2-enoyl-CoA reductase [Homo sapiens]
Official Symbol	MECR
Synonyms	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;
Gene ID	51102
mRNA Refseq	NM_016011
Protein Refseq	NP_057095

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MIM	608205
Uniprot ID	Q9BV79
Chromosome Location	1pter-p22.3
Pathway	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;
Function	nucleotide binding; oxidoreductase activity; receptor binding; trans-2-enoyl-CoA reductase (NADPH) activity; zinc ion binding;

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