

## Recombinant Human MECR, His-tagged

**Cat. No.** MECR-728H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human MECR protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 36.9 kDa (341aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<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. This protein has a role in the mitochondrial synthesis of fatty acids.
<b>Sequences Of Amino Acids</b>	MGSSHHHHHH SSGLVPRGSH MPAKVVELKN LELAAVRGSD VRVKMLAAPI NPSDINMIQG NYGLLPELPA VGGNEGVAQV VAVGSNVTGL KPGDWWIPAN AGLGTWRTEA VFSEEALIQV PSDIPLQSAA TLGVNPCTAY RMLMDFEQLQ PGDSVIQNAS NSGVGQAVIQ IAAALGLRTI NVVRDRPDIQ KLSDRKSLG AEHVITEEEL RRPEMKNFFK DMPQPRLALN CVGGKSSTEL LRQLARGGTM VTYGGMAKQP VVASVLLIF KDLKLRGFWL SQWKKDHSPD QFKELILTLC DLIRRGQLTA PACSQVPLQD YQSALEASMK PFISSKQILT M
<b>Purity</b>	> 90% by SDS – PAGE.
<b>Form</b>	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol.

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**Concentration** 0.25 mg/ml (determined by Bradford assay).

**Storage** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

**Gene Name** [MECR mitochondrial trans-2-enoyl-CoA reductase \[ Homo sapiens \]](#)

**Synonyms** MECR; mitochondrial trans-2-enoyl-CoA reductase; NRBF1; CGI-63; FASN2B; trans-2-enoyl-CoA reductase, mitochondrial; NRBF-1; hsNrpf-1; nuclear receptor binding factor 1; nuclear receptor-binding factor 1; mitochondrial 2-enoyl thioester reductase; homolog of yeast 2-enoyl thioester reductase; EC 1.3.1.38

**Gene ID** [51102](#)

**mRNA Refseq** [NM\\_001024732](#)

**Protein Refseq** [NP\\_001019903](#)

**MIM** [608205](#)

**UniProt ID** [Q9BV79](#)

**Chromosome Location** 1p36.1-p35.1

**Pathway** Fatty acid elongation in mitochondria; Metabolic pathways

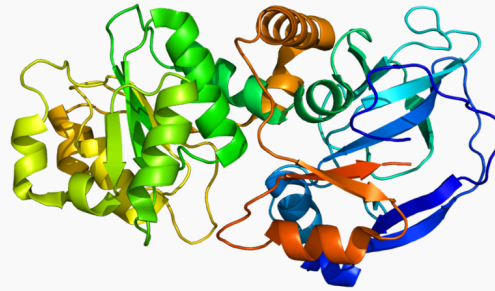
**Function** Binding; oxidoreductase activity; receptor binding; trans-2-enoyl-CoA reductase (NADPH) activity; zinc ion binding

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