

Recombinant Human MECR

Catalog No: C917

Description Recombinant Human Trans-2-Enoyl-CoA Reductase Mitochondrial is produced by our Mammalian expression system and the target gene encoding Pro54-Met373 is expressed with a 6His tag at the C-terminus.

Source Human Cells

Alternative name Trans-2-Enoyl-CoA Reductase Mitochondrial; Nuclear Receptor-Binding Factor 1; HsNrbf-1NRBF- 1; MECR; NBRF1

Accession No. Q9BV79

Formulation Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4.

Quality Control Purity: Greater than 95% as determined by reducing SDS-PAGE.
Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

Shipping The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

Storage Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Amino Acid Sequence

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PAKVELKNLEAAVRGSDVRVKMLAAPINPSDINMIQGNYGLLPELPAVGGNEGVAQVVAVGNSVTGLKP
GDWVIPANAGL
GTWRTEAVFSEEALIQVPSDIPLQSAATLGVNPCTAYRMLMDFEQLQPGDSVIQNASNQVGQAVIQIAAL
GLRTINVRDR
PDIQKLSDRLKSLGAEHVITEELRRPEMKNFFKDMPQPRALNCVGGKSSELLRQLARGTMVTYGGMA
KQPVVAVSLLIF
KDLKLRGFWLSQWKDHSPDQFKELILTLCDLIRRQLTAPACSVPLQDYQSALEASMKPFISSKQILTMV
DHHHHHH

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Background Trans-2-Enoyl-CoA Reductase Mitochondrial (MECR) belongs to the zinc-containing alcohol dehydrogenase family. MECR localizes to the mitochondrion. It is highly expressed in skeletal and heart muscle and expressed at lower levels in the placenta, liver, kidney and pancreas, with weakly or no expression in the lung. MECR exists as a homodimer, which 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. MECR may take part in the mitochondrial synthesis of fatty acids.

