

## Recombinant Human MECR Protein (His Tag)

**Catalog No.** PKSH033131

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

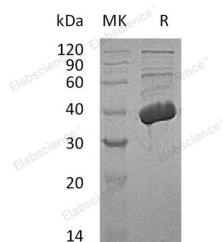
### Description

<b>Synonyms</b>	Trans-2-Enoyl-CoA Reductase Mitochondrial;Nuclear Receptor-Binding Factor 1;HsNr1h1-1;NR1H1;MECR;NBRF1
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Pro54-Met373
<b>Accession</b>	AAH01419.1
<b>Calculated Molecular Weight</b>	35.7 kDa
<b>Observed molecular weight</b>	39 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

Trans-2-Enoyl-CoA Reductase Mitochondrial (MECR) belongs to the zinc-containing alcohol dehydrogenase family.

### For Research Use Only

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.

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