Recombinant human MECR protein

Catalog Number: ATGP0607

PRODUCT INFORMATION

Expression system
E.coli

Domain
54-373aa

UniProt No.
Q9BV79

NCBI Accession No.
AAH01419

Alternative Names
Trans-2-enoyl-CoA reductase mitochondrial, NRBF1, CGI-63, FASN2B, Trans-2-enoyl-CoA reductase, mitochondrial, HsNrbf1, CGI 63, Homolog of yeast 2 enoyl thioester reductase, NBRF 1, NBRF1, NRBF 1, NRBF1, Nuclear receptor binding factor 1

PRODUCT SPECIFICATION

Molecular Weight
36.9 kDa (341aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. This protein has a role in the mitochondrial synthesis of fatty acids. Recombinant human MECR protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

conventional chromatography techniques

Amino acid Sequence

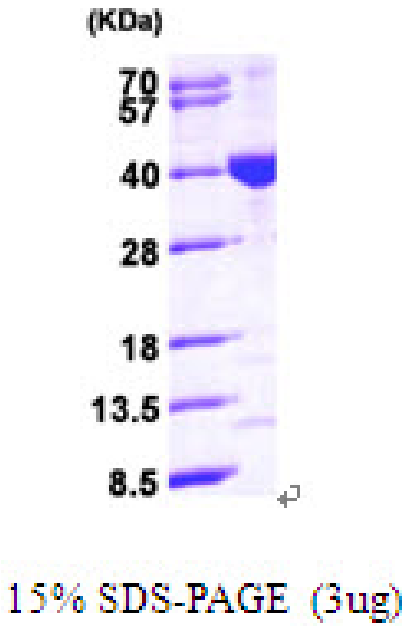
MGSSHHHHHH SSGLVPRGSH MPAKVVELKN LELAAVRGSD VRVKMLAAPI NPSDINMIQG NYGLLPELPA VGGNEGVAQV VAVGSNVTGL KPGDWVIPAN AGLGTWRTEA VFSEEALIQV PSDIPLQSAA TLGVNPCTAY RMLMDFEQLQ PGDSVIQNAS NSGVGQAVIQ IAAALGLRTI NVVRDRPDIQ KLSDRLKSLG AEHVITEEEL RRPEMKNFFK DMPQPRLALN CVGGKSSTEL LRQLARGGTM VTYGGMAKQP VVASVSLLIF KDLKLRGFWL SQWKKDHSPD QFKELILTLC DLIRRGQLTA PACSQVPLQD YQSALEASMK PFISSKQILT M

General References

Scicluna EA., et al. (2010) Eur J Clin Microbiol Infect Dis. 29(2):163-70.
Chen ZJ., et al. (2008) J Mol Biol. 379(4):830-44.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.