

Recombinant human MVK protein

Catalog Number: ATGP1933

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-396aa

UniProt No.

Q03426

NCBI Accession No.

NP_001107657.1

Alternative Names

Mevalonate kinase, LRBP, MK, MVLK

PRODUCT SPECIFICATION

Molecular Weight

44.8 kDa (419aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

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

Mevalonate kinase, also known as MVK, belongs to the GHMP kinase family. Mevalonate is a key intermediate, and mevalonate kinase a key early enzyme, in isoprenoid and sterol synthesis. Mevalonate kinase deficiency caused by mutation of this gene results in mevalonic aciduria, a disease characterized psychomotor retardation, failure to thrive, hepatosplenomegaly, anemia and recurrent febrile crises. Defects in this gene also cause hyperimmunoglobulinaemia D and periodic fever syndrome, a disorder characterized by recurrent episodes of fever associated with lymphadenopathy, arthralgia, gastrointestinal dismay and skin rash. Recombinant human

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MVK protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

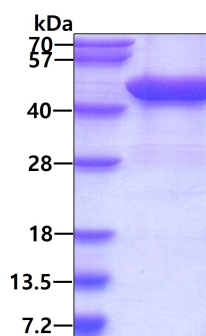
<MGSSHHHHHH SSGLVPRGSH MGS>MLSEVLL VSAPGKVLH GEHAVVHGKV ALAVSLNLR RT FLRLQPHSNG
KVDLSLPNIG IKRAWDVARL QSLDTSFLEQ GDVTTPTSEQ VEKLKEVAGL PDDCAVTERL AVLAFLYLYL SICRKQRALP
SLDIVVWSEL PPGAGLGSSA AYSVCLAAAL LTVCEEIPNP LKDGDCVNRW TKEDLELINK WAFQGERMIH GNPSGVDNAV
STWGGALRYH QGKISSLKRS PALQILLTNT KVPNRNTRALV AGVRNRLLKF PEIVAPLLTS IDAISLECER VLGEMGEAPA
PEQYLVLEEL IDMNQHHLNA LGVGHASLDQ LCQVTRARGL HSKLTGAGGG GCGITLLKPG LEQPEVEATK QALTSCGFDC
LETSIGAPGV SIHSATSLDS RVQQALDGL

General References

Cuisset L., et al. (2001) Eur. J. Hum. Genet. 9:260-266
D'Oswaldo A., et al. (2005) Eur. J. Hum. Genet. 13:314-320

DATA

SDS-PAGE



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