

# Recombinant human MVK protein

Catalog Number: ATGP1933

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

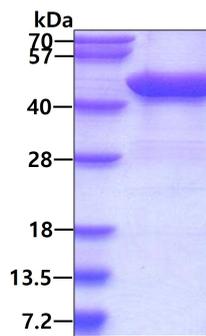
<MGSSHHHHHH SSGLVPRGSH MGS>MLSEVLL VSAPGKVIH GEHAVVHGKV ALAVSLNLR T FLRLQPHSNG  
KVDLSLPNIG IKRAWDVARL QSLDTSFLEQ GDVTTPTSEQ VEKLKEVAGL PDDCAVTERL AVLAFLYLYL SICRKQRALP  
SLDIVVWSEL PPGAGLGSSA AYSVCLAAAL LTVCEEIPNP LKDGDCVNRW TKEDLELINK WAFQGERMIH GNPSGVDNAV  
STWGGALRYH QGKISSLKRS PALQILLTNT KVPRNTRALV AGVRNRLK F 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'Ossualdo A., et al. (2005) *Eur. J. Hum. Genet.* 13:314-320

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.