

Recombinant Human MVK, His-tagged

Cat. No. MVK-7233H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MVK protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
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
source	E. coli
species	Human
tag	His
form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

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molecular mass	44.8 kDa (419aa)
aa sequence	MGSSHHHHHH SSGLVPRGSH MGSMLSEVLL VSAPGKVILH GEHAVVHGKV ALAVSLNLRT FLRLQPHSNG KVDLSLPNIG IKRAWVARL QSLDTSFLEQ GDVTTPTSEQ VEKLKEVAGL PDDCAVTERL AVLAFLYLYL SICRKQRALP SLDIVVWSEL PPGAGLGSSA AYSVCLAAAL LTVCEEIPNP LKDGDCVNRW TKEDLELINK WAFQGERMIH GNPSGVDNAV STWGGALRYH QGKISSLKRS PALQILLTNT KVPRNTRALV AGVRNRLLKF PEIVAPLLTS IDAISLECER VLGEMGEAPA PEQYLVLEEL IDMNQHHLNA LGVGHASLDQ LCQVTRARGL HSKLTGAGGG GCGITLLKPG LEQPEVEATK QALTSCGFDC LETSIGAPGV SIHSATSLDS RVQQALDGL
purity	>90% by SDS - PAGE
applications	SDS-PAGE
storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
concentration	0.5 mg/ml
GENE INFORMATION	
gene name	MVK mevalonate kinase [Homo sapiens]
official symbol	MVK
synonyms	MVK; mevalonate kinase; mevalonate kinase (mevalonic aciduria); LH receptor mRNA binding protein; LRBP; mevalonic aciduria; MK; mevalonate kinase 1; LH receptor mRNA-binding protein; MVLK; FLJ96772;

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Gene ID	4598
mrna refseq	NM_000431
protein refseq	NP_000422
mim	251170
uniprot id	Q03426
chromosome location	12q24
pathway	C5 isoprenoid biosynthesis, mevalonate pathway, organism-specific biosystem; C5 isoprenoid biosynthesis, mevalonate pathway, conserved biosystem; Cholesterol Biosynthesis, organism-specific biosystem; Cholesterol biosynthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem;
function	ATP binding; identical protein binding; mevalonate kinase activity; mevalonate kinase activity; nucleotide binding; transferase activity;