

## Recombinant Human MVK, His-tagged

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

### SPECIFICATION

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

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|                         |  |
|-------------------------|--|
| <b>molecular mass</b>   | 44.8 kDa (419aa)   |
| <b>aa sequence</b>      | <p>MGSSHHHHHH SSGLVPRGSH MGSMLSEVLL VSAPGKVLH GEHAVVHGKV<br/>         ALAVSLNLR FLRLQPHSNG KVDLSLPNIG IKRAWVVARL QSLDTSFLEQ<br/>         GDVTTPTSEQ VEKLKEVAGL PDDCAVTERL AVLAFLYLYL SICRKQRALP<br/>         SLDIVVWSEL PPGAGLGSSA AYSVCLAAL LTVCEEIPNP LKDGDCVNRW<br/>         TKEDLELINK WAFQGERMIH GNPSGVDNAV STWGGALRYH QGKISSLKRS<br/>         PALQILLTNT KVPRNTRALV AGVRNRLKLF PEIVAPLLTS IDAISLECER<br/>         VLGEMGEAPA PEQYLVLEEL IDMNQHHLNA LGVGHASLDQ LCQVTRARGL<br/>         HSKLTGAGGG GCGITLLKPG LEQPEVEATK QALTSCGFDC LETSIGAPGV<br/>         SIHSATSLDS RVQQALDGL</p> |
| <b>purity</b>           | >90% by SDS - PAGE   |
| <b>applications</b>     | SDS-PAGE   |
| <b>storage</b>          | 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.   |
| <b>concentration</b>    | 0.5 mg/ml  |
| <b>GENE INFORMATION</b> |  |
| <b>gene name</b>        | <a href="#">MVK mevalonate kinase [ Homo sapiens ]</a>   |
| <b>official symbol</b>  | MVK  |
| <b>synonyms</b>         | 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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|                            |   |
|----------------------------|---|
| <b>Gene ID</b>             | 4598  |
| <b>mrna refseq</b>         | NM_000431   |
| <b>protein refseq</b>      | NP_000422   |
| <b>mim</b>                 | 251170  |
| <b>uniprot id</b>          | Q03426  |
| <b>chromosome location</b> | 12q24   |
| <b>pathway</b>             | 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; |
| <b>function</b>            | ATP binding; identical protein binding; mevalonate kinase activity; mevalonate kinase activity; nucleotide binding; transferase activity;   |

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