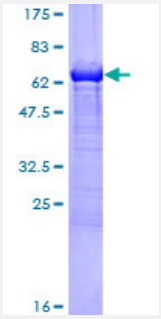
Full-Length

# MVK (Human) Recombinant Protein (P01)

Catalog # H00004598-P01 Size 25 ug, 10 ug

## Applications




## Specification

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|---|---|
| **Product Description** | Human MVK full-length ORF ( NP_000422.1, 1 a.a. - 396 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Sequence** | MLSEVLLVSAPGKVILHGEHAVVHGKVALAVSLNLRTFLRLQPHSNGKVDLSLPNIGIKRAWDVAR LQSLDTSFLEQGDVTTPTSEQVEKLKEVAGLPDDCAVTERLAVLAFLYLYLSICRKQRALPSLDIV VWSELPPGAGLGSSAAYSVCLAAALLTVCEEIPNPLKDGDCVNRWTKEDLELINKWAFQGERMI HGNPSGVDNAVSTWGGALRYHQGKISSLKRSPALQILLTNTKVPRNTRALVAGVRNRLLKFPEIVA PLLTSIDAISLECERVLGEMGEAPAPEQYLVLEELIDMNQHHLNALGVGHASLDQLCQVTRARGLH SKLTGAGGGGCGITLLKPGLEQPEVEATKQALTSCGFDCLETSIGAPGVSIHSATSLDSRVQQAL DGL |
| **Host** | Wheat Germ (in vitro) |
| **Theoretical MW (kDa)** | 68.9 |
| **Preparation Method** | *in vitro* wheat germ expression system |
| **Purification** | Glutathione Sepharose 4 Fast Flow |
| **Quality Control Testing** | 12.5% SDS-PAGE Stained with Coomassie Blue. |
| **Storage Buffer** | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| **Storage Instruction** | Store at -80°C. Aliquot to avoid repeated freezing and thawing. |

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| **Note** | Best use within three months from the date of receipt of this protein. |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — MVK

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|---|---|
| **Entrez GeneID** | 4598 |
| **GeneBank Accession#** | NM_000431.1 |
| **Protein Accession#** | NP_000422.1 |
| **Gene Name** | MVK |
| **Gene Alias** | FLJ96772, LRBP, MK, MVLK |
| **Gene Description** | mevalonate kinase |
| **Omim ID** | 251170 260920 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes the peroxisomal enzyme mevalonate kinase. 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. Two transcript variants that encode the same protein have been found for this gene. [provided by RefSeq |
| **Other Designations** | LH receptor mRNA-binding protein\|mevalonic aciduria |

## Pathway

- Biosynthesis of alkaloids derived from terpenoid and polyketide
- Biosynthesis of plant hormones
- Biosynthesis of terpenoids and steroids
- Metabolic pathways
- Terpenoid backbone biosynthesis

## Disease

- Amyloidosis
- Autoimmune Diseases
- Behcet Syndrome
- Coronary Artery Disease
- Diabetes Mellitus
- Diarrhea
- Dyslipidemias
- Familial Mediterranean fever
- Genetic Predisposition to Disease
- Hyperlipidemias
- Hypertriglyceridemia
- Inflammation
- Irritable Bowel Syndrome
- Narcolepsy
- Pain
- Stomatitis
- Syndrome