

## Recombinant Human MVK

Cat. No. MVK-26958TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment of Human MVK with an N terminal proprietary tag; Predicted MWt 36.63 kDa.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	100 amino acids
<b>Description</b>	<p>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.</p>
<b>Molecular Weight</b>	36.630kDa inclusive of tags
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification

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<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	LIDMNQHHLNALGVGHASLDQLCQVTRARGLHSKLTGAGGGGCGITLLKPGLEQPE VEATKQALTSCGFDCLETSIGAPGVSIHSATSLDSRVQQALDGL
<b>Sequence Similarities</b>	Belongs to the GHMP kinase family. Mevalonate kinase subfamily.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">MVK mevalonate kinase [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">MVK</a>
<b>Synonyms</b>	MVK; mevalonate kinase; mevalonate kinase (mevalonic aciduria); LH receptor mRNA binding protein; LRBP; mevalonic aciduria; MK;
<b>Gene ID</b>	<a href="#">4598</a>
<b>mRNA Refseq</b>	<a href="#">NM_000431</a>
<b>Protein Refseq</b>	<a href="#">NP_000422</a>
<b>MIM</b>	<a href="#">251170</a>
<b>Uniprot ID</b>	<a href="#">Q03426</a>
<b>Chromosome Location</b>	12q24

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**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;

**Function**

ATP binding; identical protein binding; mevalonate kinase activity; mevalonate kinase activity; nucleotide binding;

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