

Recombinant Human MVK

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

SPECIFICATION

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

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

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;
Gene ID	4598
mRNA Refseq	NM_000431
Protein Refseq	NP_000422
MIM	251170
Uniprot ID	Q03426
Chromosome Location	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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