

Recombinant Human MVK Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MVK-3092H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MVK MS Standard C13 and N15-labeled recombinant protein (NP_000422) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. Alternative splicing results in multiple transcript variants.
Molecular Mass	42.5 kDa
AA Sequence	MLSEVLLVSAPGKVLHGEHAVVHGKVALAVSLNLRNFLRLQPHSNGKVDLSLPNIGI KRAWDVARLQSLDTSFLEQGDVTTPTSEQVEKLKEVAGLPDDCAVTERLAVLAFLYL YLSICRKQRALPSLDIVVWSELPPGAGLGSSAAYSVCCLAAALLTVCEEIPNPLKDGDC VNRWTKEDLELINKWAFQGERMIHGNPSGVDNAVSTWGGALRYHQGKISSLKRSP

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ALQILLTNTKVPRNTRALVAGVRNRLKFPEIVAPLLTSIDAI SLECERVLGEMGEAPA
 PEQYLVL EELIDMNQHHLNALGVGHASLDQLCQVTRARGLH SKLTGAGGGGCGITL
 LKPGLEQPEVEATKQALTSCGFDCLETSIGAPGVSIHSATSLDSRVQQALDGLTRTR
 PLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [MVK mevalonate kinase \[Homo sapiens \(human\) \]](#)

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;

Gene ID [4598](#)

mRNA Refseq [NM_000431](#)

Protein Refseq [NP_000422](#)

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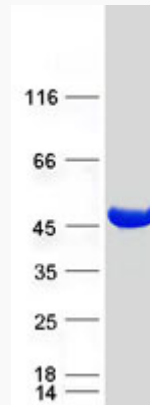
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MIM 251170

UniProt ID Q03426

SDS-PAGE



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