

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

Cat. No. MVK-3426H Lot. No. (See product label)

SPECIFICATION

Product Overview

MVK MS Standard C13 and N15-labeled recombinant protein (NP_001107657) 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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ALQILLTNTKVPRNTRALVAGVRNRLKFPFIVAPLLTSIDAI 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_001114185

Protein Refseq NP_001107657

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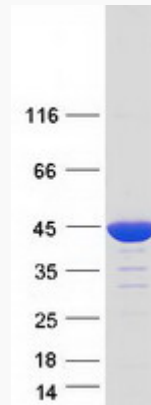
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MIM 251170

UniProt ID Q03426

SDS-PAGE



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