

## Product datasheet for **TP325616**

### MVK (NM\_00114185) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human mevalonate kinase (MVK), transcript variant 2, 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone  
or AA Sequence:** >RC225616 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MLSEVLLVSAPGKVLHGEHAVVHGKVALAVSLNLRFLRLQPHSNGKVDLSLPNIGIKRAWDFVARLQSL  
DTSFLEQGDVTTPTSEQVEKLKEVAGLPDDCAVTERLAVLAFLYLYLSICRKQRALPSLDIWWSELPPG  
AGLGSSAAYSVCLAAALLTVCEEIPNPLKDGDCVNRWTKEDLELINKWAFQGERMIHGNPSGVDNAVSTW  
GGALRYHQGKISSLKRSALQILLTNTKVPNRTRALVAGVRNRLKFPEIVAPLLTSDAISLECERVLG  
EMGEAPAPEQYLVLEELIDMNQHHLNALGVGHASLDQLCQVTRARGLHSKLTGAGGGGCGITLLKPGLEQ  
PEVEATKQALTSCGFDCLETSIGAPGVSISHSATSLDSRVQQALDGL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 42.3 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

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

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_001107657](#)

**Locus ID:** 4598



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UniProt ID: [Q03426](#), [B2RDU6](#)

RefSeq Size: 2075

Cytogenetics: 12q24.11

RefSeq ORF: 1188

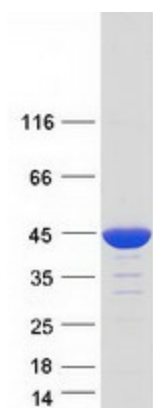
Synonyms: LRBP; MK; MVLK; POROK3

**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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Terpenoid backbone biosynthesis

### Product images:



Coomassie blue staining of purified MVK protein (Cat# TP325616). The protein was produced from HEK293T cells transfected with MVK cDNA clone (Cat# [RC225616]) using MegaTran 2.0 (Cat# [TT210002]).