

# Human MVK Protein

Cat. No. MVK-HB101

## Description

<b>Source</b>	Recombinant Human MVK Protein is expressed from Baculovirus-Insect Cells with His tag and GST tag at the N-terminus and Strep-II tag at the C-terminus. It contains Met1-Leu396.
<b>Accession</b>	Q03426
<b>Molecular Weight</b>	The protein has a predicted MW of 72.23 kDa. The protein migrates to 55-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 90% as determined by Bis-Tris PAGE

## Formulation and Storage

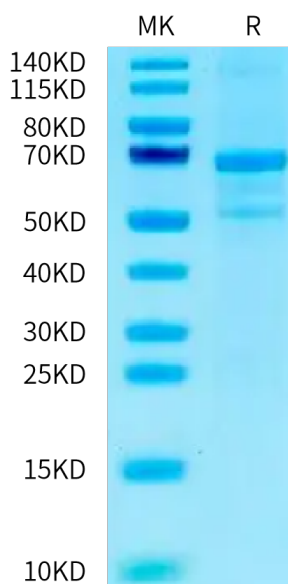
<b>Formulation</b>	Supplied as 0.22 µm filtered solution in 20mM Tris, 500mM NaCl, 2mM DTT, 10% glycerol (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Mevalonate kinase (MK) is an essential enzyme in the mevalonate pathway which produces numerous cellular isoprenoids. The enzyme has been characterized both at the biochemical and the molecular level in a variety of organisms. Despite the fact that mevalonate kinase is not the rate-limiting enzyme in isoprenoid biosynthesis, its activity is subject to feedback regulation by the branch-point intermediates geranyldiphosphate, farnesyldiphosphate and geranylgeranyldiphosphate.

## Assay Data

### Bis-Tris PAGE



Human MVK on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.