

MVK Protein, Human (sf9, His-GST)

Cat. No.:	HY-P74739
Synonyms:	Mevalonate kinase; MK; MVK
Species:	Human
Source:	Sf9 insect cells
Accession:	Q03426 (M1-L396)
Gene ID:	4598
Molecular Weight:	Approximately 47 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 2 mM DTT, pH 7.4, 10% gly.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

The MVK protein plays a pivotal role in isoprenoid and cholesterol biosynthesis by catalyzing the phosphorylation of mevalonate to mevalonate 5-phosphate. This enzymatic activity represents a crucial and rate-limiting step in the mevalonate pathway, a metabolic pathway essential for the synthesis of various important molecules, including cholesterol and isoprenoid compounds. The phosphorylation of mevalonate by MVK is a tightly regulated process and a key regulatory point in the overall control of cholesterol and isoprenoid production within cells. Dysregulation of MVK activity has been associated with certain metabolic disorders, emphasizing the significance of this enzyme in maintaining cellular homeostasis and lipid metabolism.

Caution: Product has not been fully validated for medical applications. For research use only.

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