Data Sheet (Cat.No.TMPY-04767)

TargetMol

PMVK Protein, Human, Recombinant (His)

General Information

Synonyms:	PMK;PMKA;phosphomevalonate kinase;HUMPMKI;PMKASE
Protein Construction:	A DNA sequence encoding the mature form of human PMVK(Q15126) (Met1-Leu192) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	Q15126
Molecular Weight:	23.8 kDa (predicted); 24 kDa (reducing conditions)

QC Testing

Biological Activity:	Kinase activity untested
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Supplied as sterile 50 mM MOPS, 150 mM KCl, 1 mM DTT, pH 7.0.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

PMVK is a peroxisomal enzyme that catalyzes the conversion of mevalonate 5-phosphate into mevalonate 5-diphosphate, the fifth reaction of the cholesterol biosynthetic pathway. Studies in rat show that the message level and the enzyme activity of PMVK is regulated by sterol, and that this regulation is coordinated with 3-hydroxy-3-methylglutaryl coenzyme A reductase, the rate-limiting enzyme of cholesterol biosynthesis.

Reference

Chambliss K.L., et al.,(1996), Molecular cloning of human phosphomevalonate kinase and identification of a consensus peroxisomal targeting sequence. J. Biol. Chem. 271:17330-17334.
Olivier L.M., et al., (1999), Characterization of phosphomevalonate kinase: chromosomal localization, regulation, and subcellular targeting.J. Lipid Res. 40:672-679.
Herdendorf T.J., et al.,(2006), Phosphomevalonate kinase: functional investigation of the recombinant human enzyme. Biochemistry 45:3235-3242.

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