

Recombinant Human PMVK, His-tagged

Cat. No. PMVK-30069TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PMVK with an N terminal His tag; 212aa, 24.1kDa.
Species	Human
Source	E.coli
ProteinLength	192 amino acids
Description	This gene encodes 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 this protein 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.
Conjugation	HIS
Molecular Weight	24.100kDa inclusive of tags
Tissue specificity	Heart, liver, skeletal muscle, kidney, and pancreas. Lower level in brain, placenta and lung.
Form	Liquid
Purity	>95% by SDS-PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMAPLGGAPRLVLLFSGKRKSGKDFVTEALQSRLGADVCAVLRRLSGPLKEQYAEHGLNFQRLLDSTYKEAFRKDMIRWGEEKRQADPGFFCRKIVEGISQPIWLVSDTRRVSDIQWFREAYGAVTQTVRVVALEQSRQQRGWVFTP GVDDAESECGLDNFGDFDWIENHGVEQRLLEEQLLENLIEFIRSRL

GENE INFORMATION

Gene Name	PMVK phosphomevalonate kinase [Homo sapiens]
Official Symbol	PMVK
Synonyms	PMVK; phosphomevalonate kinase; HUMPMKI; PMK; PMKA;
Gene ID	10654
mRNA Refseq	NM_006556
Protein Refseq	NP_006547
MIM	607622
Uniprot ID	Q15126
Chromosome Location	1p13-q23

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Pathway	C5 isoprenoid biosynthesis, mevalonate pathway, organism-specific biosystem; C5 isoprenoid biosynthesis, mevalonate pathway, conserved biosystem; Cholesterol Biosynthesis, organism-specific biosystem; Cholesterol biosynthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
Function	ATP binding; nucleotide binding; phosphomevalonate kinase activity; transferase activity;

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