

PMVK Protein, Human (His)

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| Cat. No.: | HY-P71217 |
| Synonyms: | Phosphomevalonate Kinase; PMKase; hPMK; PMVK; PMKI |
| Species: | Human |
| Source: | E. coli |
| Accession: | Q15126 (M1-L192) |
| Gene ID: | 10654 |
| Molecular Weight: | Approximately 26.0 kDa |

PROPERTIES

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| AA Sequence | <pre> M A P L G G A P R L V L L F S G K R K S G K D F V T E A L Q S R L G A D V C A V L R L S G P L K E Q Y A Q E H G L N F Q R L L D T S T Y K E A F R K D M I R W G E E K R Q A D P G F F C R K I V E G I S Q P I W L V S D T R R V S D I Q W F R E A Y G A V T Q T V R V V A L E Q S R Q Q R G W V F T P G V D D A E S E C G L D N F G D F D W V I E N H G V E Q R L E E Q L E N L I E F I R S R L </pre> |
| 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-HCl, 100 mM NaCl, 1 mM DTT, 10% Glycerol, pH 7.5. |
| 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

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| Background | <p>The PMVK (Phosphomevalonate kinase) protein is an enzyme that catalyzes a pivotal step in the mevalonate pathway, which is crucial for the biosynthesis of isopentenyl diphosphate and various polyisoprenoid metabolites. Specifically, PMVK facilitates the reversible ATP-dependent phosphorylation of mevalonate 5-phosphate, generating mevalonate diphosphate and ADP. This enzymatic activity is essential for the production of isoprenoids, which serve as precursors for essential cellular components such as sterols, dolichols, and ubiquinones. The mevalonate pathway, in which PMVK participates, plays a central role in diverse biological processes, including cholesterol synthesis and regulation of cell membrane</p> |
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integrity. Understanding the functions of PMVK provides insights into the regulation of isoprenoid metabolism and its implications for various cellular functions.

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

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