
Product Data Sheet

Product Name: PMVK Human
 Cat. No.: GP22600
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Phosphomevalonate kinase; PMKase; hPMK; PMVK; PMKI; PMK; PMKA; PMKASE; HUMPMKI.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAPLGGAPRL VLLFSGKRKS GKDFVTEALQ SRLGADVCAV LRLSGPLKEQ YAQEHGLNFQ RLLDTSTYKE AFRKDMIRWG EEKRQADPGF FCRKIVEGIS QPIWLVS DTR RVSDIQWFRE AYGAVTQTVR VVALEQSRQQ RGWVFTPGVD DAES ECGLDN FGDFDWVIEN HGVEQRLEE Q LENLIEFIRS RL.		
Formulation	The PMVK solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 7.5), 1mM DTT, 10% glycerol and 0.1M NaCl.		

Introduction

Phosphomevalonate kinase (PMVK) is a cytosolic enzyme. PMVK is expressed highly in the heart, liver, skeletal muscle, kidney and pancreas and slightly lower in the brain, placenta, and lung. PMVK catalyzes the conversion of mevalonate 5-phosphate into mevalonate 5-diphosphate in the fifth reaction of the cholesterol biosynthetic pathway. Induced by sterol, PMVK participates in isopentenyl diphosphate biosynthesis via the mevalonate pathway.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PMVK Human Recombinant fused with a 20 amino acid His tag at N-terminus produced

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

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in E.Coli is a single, non-glycosylated, polypeptide chain containing 212 amino acids (1-192 a.a.) and having a molecular mass of 24.1kDa. The PMVK is purified by proprietary chromatographic techniques.

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