

PMVK, 1-192aa, Human, His tag, E.coli

Cat.NO.: TP03444

3th Edition

Synonyms: Phosphomevalonate kinase, HUMPMKI, PMK, PMKA, PMKASE.

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

Form: Liquid. In 20mM Tris-HCl buffer (pH 7.5) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Molecular Weight: 24.1 kDa (212aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMAPLGGAPRLVLLFSGKRKSGKDFVTEALQSRLGADVCAVLRRLSGPLKEQYAAE
HGLNFQRLLDTSTYKEAFRKMIRWGEEKRQADPGFFCRKIVEGISQPIWLVSDDRVSIDIQWFREAYGAVTQTVR
VVALEQSRQQRGWVFTPGVDDAESECGLDNFGDFDWVIENHGVEQRLEEQLLENLIEFIRSRL

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.