
Product Data Sheet

Product Name: MVK Human
 Cat. No.: GP22564
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Mevalonate Kinase (Mevalonic Aciduria); LH Receptor mRNA-Binding Protein; LRBP; Mevalonate Kinase 1; MK; MVLK; EC 2.7.1.36.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMLSEVLL VSAPGKVLH GEHAVVHGKV ALAVSLNLRT FLRLQPHSNG KVDLSLPNIG IKRAWDVARL QSLDTSFLEQ GDVTTPTSEQ VEKLKEVAGL PDDCAVTERL AVLAFLYLYL SICRKQRALP SLDIVVWSEL PPGAGLGSSA AYSVCLAAAL LTVCEEIPNP LKDGDCVNRW TKEDLELINK WAFQGERMIH GNPSGVDNAV STWGGALRYH QGKISSLKRS PALQILLTNT KVPRNTRALV AGVRNRLKLF PEIVAPLLTS IDAISLECER VLGEMGEAPA PEQYLVEEL IDMNQHHLNA LGVGHASLDQ LCQVTRARGL HSKLTGAGGG GCGITLLKPG LEQPEVEATK QALTSCGFDC LETSIGAPGV SIHSATSLDS RVQQALDGL.		
Formulation	MVK protein (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

MVK is a member of the GHMP kinase family. Mevalonate is a vital mediator, and MVK an important early enzyme, in isoprenoid and sterol synthesis. MVK deficiency can result in gene mutation associated with Mevalonic aciduria, an illness which causes psychomotor retardation, failure to thrive hepatosplenomegaly, anemia and frequent febrile crises. Mutations in this gene also cause hyperimmunoglobulinaemia D and sporadic fever syndrome, in which the person suffers from recurrent episodes of fever related with lymphadenopathy, skin rash, gastrointestinal dismay and arthralgia.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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

MVK Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 419 amino acids (1-396) and having a molecular mass of 44.8kDa.

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