

## Mevalonate Kinase Human Recombinant

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| <b>Item Number</b>                       | rAP-1687                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>                          | Mevalonate Kinase (Mevalonic Aciduria), LH Receptor mRNA-Binding Protein, LRBP, Mevalonate Kinase 1, MK, MVLK, EC 2.7.1.36.                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>                       | 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. The MVK is fused to a 23 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.                                                                                                                                                                                                          |
| <b>Uniprot Accession Number</b>          | Q03426                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Amino Acid Sequence</b>               | MGSSHHHHHH SSGLVPRGSH MGSMLSEVLL VSAPGKVLH GEHAVVHGKV ALAVSLNLR<br>FLRLQPHSNG KVDLSLPNIG IKRAWDVARL QSLDTSFLEQ GDVTTPTSEQ VEKLKEVAGL<br>PDDCAVTERL AVLAFLYLYL SICRKQRALP SLDIVVWSEL PPGAGLGSSA AYSVCLAAAL LTVCEEIPNP<br>LKDGDVCNRW TKEDLELINK WAFQGERMIH GNPSGVDNAV STWGGALRYH QGKISSLKRS<br>PALQILLTNT KVPNRTRALV AGVRNRLKF PEIVAPLLTS IDAISLECER VLGEMGEAPA PEQYLVLEEL<br>IDMNQHHLNA LGVGHASLDQ LCQVTRARGL HSKLTGAGGG GCGITLLKPG LEQPEVEATK QALT-<br>SCGFDC LETSIGAPGV SIHSATSLDS RVQQALDGL. |
| <b>Source</b>                            | Escherichia Coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Physical Appearance and Stability</b> | Sterile Filtered clear solution. 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.                                                                                                                                                                                                                          |
| <b>Formulation and Purity</b>            | MVK protein (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT. Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                               |
| <b>Application</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Solubility</b>                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Biological Activity</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Shipping Format and Condition</b>     | Lyophilized powder at room temperature.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**