Mevalonate Kinase (MVK) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Mevalonate kinase (Mvk), Recombinant Protein
Full Product Name	Recombinant Mouse Mevalonate kinase (Mvk)
Product Gene Name	Mvk recombinant protein
Product Synonym Gene Name	Mvk
Sequence	MLSEALLVSA PGKVILHGEH AVVHGKVALA AALNLRTFLL LRPQSNGKVS VNLPNIGIKQ VWDVGMLQRL DTSFLEQGDV SVPTLEQLEK LKKMGDLPRD RAGNEGMALL AFLYLYLAIC RKQRTLPSLD MVVWSELPPG AGLGSSAAYS VCLAAALLTA CEEVSNPLKD GVSVSRWPEE DLKSINKWAF EGERVIHGNP SGVDNAVSTW GGALRFQQGT MSSLKSLPSL QILLTNTKVP RSTKALVAAV RSRLTKFPEI VAPLLTSIDA ISLECERVLG EMVAAPVPEQ YLVLEELIDM NQHHLNALGV GHNSLDQLCQ VTAAHGLHSK LTGAGGGGCG ITLLKPGLEQ ATVEAAKQAL TSCGFDCWET SIGAPGVSTH SAAAVGDPVR QALGL
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	41,877 Da
Sequence Positions	1-395, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9R008
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mvk recombinant protein	This gene encodes the peroxisomal enzyme mevalonate kinase. Mevalonate is a key intermediate, and mevalonate kinase a key early enzyme, in isoprenoid and sterol synthesis. Mevalonate kinase deficiency caused by mutation of this gene results in mevalonic aciduria, a disease characterized psychomotor retardation, failure to thrive, hepatosplenomegaly, anemia and recurrent febrile crises. Defects in this gene also cause hyperimmunoglobulinaemia D and periodic fever syndrome, a disorder characterized by recurrent episodes of fever associated with lymphadenopathy, arthralgia, gastrointestinal dismay and skin rash. Two transcript variants that encode the same protein have been found for this gene.
Other Notes	Small volumes of Mvk recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Mvk purchase	MBS1421856 is a recombinant protein targeting Mvk. Also known as Recombinant Mouse Mevalonate kinase (Mvk). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Mvk. It may not necessarily be applicable to this product.

NCBI GI #	12963731
NCBI GeneID	17855
NCBI Accession #	NP_076045.1
UniProt Primary Accession #	Q9R008
UniProt Related Accession #	Q9R008
GenBank Nucleotide #	NM_023556.3
NCBI Official Full Name	mevalonate kinase isoform 2
NCBI Official Synonym Full Names	mevalonate kinase
NCBI Official Symbol	Mvk
NCBI Official Synonym Symbols	MK; AI256848; AI414037; 2310010A05Rik
UniProt Protein Name	Mevalonate kinase
Protein Family	Mevalonate kinase
UniProt Gene Name	Mvk
UniProt Synonym Gene Names	MK
NCBI Protein Information	mevalonate kinase
NCBI Summary for Mvk	This gene encodes mevalonate kinase, a key enzyme involved in the biosynthesis of cholesterol and non-sterol isoprenes. The complete lack of encoded protein is lethal to mouse embryos. Mice lacking one allele of this gene exhibit increased levels of mevalonate in spleen, heart and kidney, as well as increased levels of serum immunoglobulins A and D. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]
UniProt Comments for Mvk	May be a regulatory site in cholesterol biosynthetic pathway.
Research Articles on Mvk	**1.** analyis of the aberrant expression of costimulatory molecules in splenocytes of the mevalonate kinase-deficient mouse model of human hyper-IgD syndrome
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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