Recombinant Human MVK/Mevalonate kinase Protein (His & GST Tag)

Catalog Number:PKSH030326

Note: Centrifuge before opening to ensure complete recovery of vial contents.

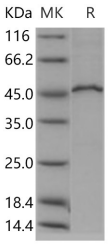
Description

Synonyms	LRBP;MK;MVLK;POROK3
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Leu 396
Accession	Q03426
Calculated Molecular Weight	70.2 kDa
Observed molecular weight	47 kDa
Tag	N-His-GST

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as sterile solution of 20mM Tris, 500mM NaCl, 2mM DTT, pH 7.4, 10% glycerol
Reconstitution	Not Applicable

Data



> 90 % as determined by reducing SDS-PAGE.

Background

Mevalonate kinase belongs to the GHMP kinase family, Mevalonate kinase subfamily. It can be found in a wide variety of organisms from bacteria to mammals. Mevalonate kinase may be a regulatory site in cholesterol biosynthetic pathway. Defects in mevalonate kinase can cause mevalonic aciduria (MEVA). It is an accumulation of mevalonic acid which causes a variety of symptoms such as psychomotor retardation, dysmorphic features, cataracts, hepatosplenomegaly, lymphadenopathy, anemia, hypotonia, myopathy, and ataxia. Defects in mevalonate kinase can also cause hyperimmunoglobulinemia D and periodic fever syndrome (HIDS). HIDS is an autosomal recessive disease characterized by recurrent episodes of unexplained high fever associated with skin rash, diarrhea, adenopathy (swollen, tender lymph nodes), athralgias and/or arthritis.

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