

Product datasheet for PH301971

MVK (NM_000431) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MVK MS Standard C13 and N15-labeled recombinant protein (NP_000422)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201971
Predicted MW:	42.5 kDa
Protein Sequence:	>RC201971 protein sequence Red=Cloning site Green=Tags(s)
	MLSEVLLVSAPGKVIHGEHAVVHGKVALAVSLNLRFTFLRLQPHSNGKVDLSLPNIGIKRAWDVARLQSL DTSFLEQGDVTTPTSEQVEKLKEVAGLPDDCAVTERLAVLAFLYLYLSICRKQRALPSLDIVVWSELPPG AGLGSSAAYSVCLAAALLTVCEEIPNPLKDGDCVNRWTKEDLEL INKWFQGERMIHGPNPSGVDNAVSTW GGALRYHQGKISSLKRSPALQILLTNTKVPRNTRALVAGVRNRLKFP EIVAPLLTSIDAISLECERVLG EMGEAPAPEQYL VLEELIDMNQHHLNALGVGHASLDQLCQVTRARGLHSKLTGAGGGCGITLLKPGLEQ PEVEATKQALTSCGFDCLETSIGAPGVS IHSATSLDSRVQQALDGL
	TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000422
RefSeq Size:	2084
RefSeq ORF:	1188
Synonyms:	LRBP; MK; MVLK; POROK3
Locus ID:	4598



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UniProt ID: [Q03426](#), [B2RDU6](#)

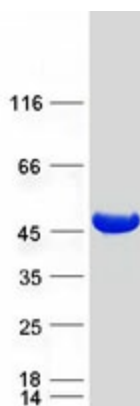
Cytogenetics: 12q24.11

Summary: 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Terpenoid backbone biosynthesis

Product images:



Coomassie blue staining of purified MVK protein (Cat# [TP301971]). The protein was produced from HEK293T cells transfected with MVK cDNA clone (Cat# [RC201971]) using MegaTran 2.0 (Cat# [TT210002]).