

Recombinant Human Mevalonate (diphospho) Decarboxylase, His-tagged

Cat. No. MVD-1569H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MVD protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	MVD, also known as diphosphomevalonate decarboxylase, catalyzes the conversion of mevalonate pyrophosphate into isopentenyl pyrophosphate in one of the early steps in cholesterol biosynthesis. It decarboxylates and dehydrates its substrate while hydrolyzing ATP.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT.
Molecular Weight	45.6 kDa (420aa), confirmed by MALDI-TOF.
Purity	>85% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MASEKPLAAV TCTAPVNIIV IKYWGKRDEE LVLPINSSLS VTLHQDQLKT TTTAVISKDF TEDRIWLNGR EEDVGQPRLQ ACLREIRCLA RKRRNSRDGD PLPSSLCKV HVASVNNFPT AAGLASSAAG YACLAYTLAR VYGVESDLSE VARRGSGSAC RSLYGGFVEW QMGEQADGKD

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SIARQVAPES HWPELRVLIL VVSAEKKLTG STVGMRASVE TSPLLRFRAE
 SVVPARMAEM ARCIRERDFP SFAQLTMKDS NQFHATCLDT FPPISYLNAI
 SWRIIHLVHR FNAHHGDTKV AYTFDAGPNA VIFTLDDTVA EFVAAVWHGF
 PPGSNGDTFL KGLQVRPAPL SAELQAALAM EPTPGGVKYI IVTQVGPQPQ
 ILDDPCAHL L GPDGLPKPAA

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Cholesterol Biosynthesis; Metabolic pathways; Metabolism of lipids and lipoproteins; Terpenoid backbone biosynthesis; mevalonate pathway I; superpathway of cholesterol biosynthesis; superpathway of geranylgeranyldiphosphate

GENE INFORMATION

Gene Name

MVD mevalonate (diphospho) decarboxylase [Homo sapiens]

Official Symbol

MVD

Synonyms

MVD; mevalonate (diphospho) decarboxylase; diphosphomevalonate decarboxylase; MDDase; OTTHUMP00000175197; mevalonate pyrophosphate decarboxylase; EC 4.1.1.33

Gene ID

4597

mRNA Refseq

NM_002461

Protein Refseq

NP_002452

MIM

603236

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UniProt ID	P53602
Chromosome Location	16q24.3
Function	ATP binding; Hsp70 protein binding; diphosphomevalonate decarboxylase activity; kinase activity; lyase activity; nucleotide binding; protein homodimerization activity

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