

## Recombinant Human MVD, His-tagged

**Cat. No.** MVD-30263TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human MVD with N terminal His tag; 420 amino acids with tag, Predicted MWt 45.6 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	400 amino acids
<b>Description</b>	The enzyme mevalonate pyrophosphate 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.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	45.600kDa inclusive of tags
<b>Tissue specificity</b>	Expressed in heart, skeletal muscle, lung, liver, brain, pancreas, kidney and placenta.
<b>Form</b>	Liquid
<b>Purity</b>	by SDS-PAGE
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.32% Tris HCl, 20% Glycerol, 0.02% DTT

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**Storage** Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Sequences of amino acids** MGSSHHHHHSSGLVPRGSHMASEKPLAAVTCTAPVNIIV IKYWGKRDEELVLPIN  
 SSSLVTLHQDQLKTTTTAVISKDF TEDRIWLN GREEDVGQPR LQA CLREIRCLARKR  
 RNSRDGD PLPSSLCKVHVASVNNFPTAAGLASSAAGYACLAYTLAR VYGVESDL  
 SEVARRGSGSACRSLYGGFVEWQMGEQADGKD SIARQVAPESHWPELRVLILVVS  
 AEK KLTGSTVGMRASVE TSPLLRFRAESVVPARMAEMARCIRERDFPSFAQLTMKD  
 S NQFHATCLDTFPPISYLN AISWRIIHLVHRFNAAHHGDTKV AYTFDAGPNAVIFTLDD  
 TVAEFVA AVWHGFPPG SNGDTFL KGLQVRPAPLSAELQAALAMEPTPGGVKYIIVT  
 QVGP GPQ ILDDPCA HLLGPDGLPKPAA

**Sequence Similarities** Belongs to the diphosphomevalonate decarboxylase family.

## GENE INFORMATION

**Gene Name** [MVD mevalonate \(diphospho\) decarboxylase \[ Homo sapiens \]](#)

**Official Symbol** [MVD](#)

**Synonyms** MVD; mevalonate (diphospho) decarboxylase; diphosphomevalonate decarboxylase; mevalonate pyrophosphate decarboxylase; MPD;

**Gene ID** [4597](#)

**mRNA Refseq** [NM\\_002461](#)

**Protein Refseq** [NP\\_002452](#)

**MIM** [603236](#)

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<b>Uniprot ID</b>	P53602
<b>Chromosome Location</b>	16q24.3
<b>Pathway</b>	C5 isoprenoid biosynthesis, mevalonate pathway, organism-specific biosystem; C5 isoprenoid biosynthesis, mevalonate pathway, conserved biosystem; Cholesterol Biosynthesis, organism-specific biosystem; Cholesterol biosynthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
<b>Function</b>	ATP binding; Hsp70 protein binding; diphosphomevalonate decarboxylase activity; diphosphomevalonate decarboxylase activity; kinase activity;

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