

Recombinant Human MVD, His-tagged

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

SPECIFICATION

Product Overview	Recombinant full length Human MVD with N terminal His tag; 420 amino acids with tag, Predicted MWt 45.6 kDa.
Species	Human
Source	E.coli
ProteinLength	400 amino acids
Description	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.
Conjugation	HIS
Molecular Weight	45.600kDa inclusive of tags
Tissue specificity	Expressed in heart, skeletal muscle, lung, liver, brain, pancreas, kidney and placenta.
Form	Liquid
Purity	by SDS-PAGE
Storage buffer	pH: 8.00Constituents: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	MGSSHHHHHHSSGLVPRGSHMASEKPLAAVTCTAPVNIAV IKYWGKRDEELVLPIN SSSLVTLHQDQLKTTTTAVISKDF TEDRIWLNGREEDVGQPRLQACLREIRCLARKR RNSRDGD PLPSSLCKVHVASVNNFPTAAGLASSAAGYACLAYTLAR VYGVESDL SEVARRGSGSACRSLYGGFVEWQMGEQADGKD SIARQVAPESHWPELRVLILVVS AEKKLTGSTVGMRASVE TSPLLRFRAESVVPARMAEMARCIRERDFPSFAQLTMKD S NQFHATCLDTFPPISYLN AISWRIIHLVHRFNAHHGDTKV AYTFDAGPNAVIFTLDD TVAEFVAAVWHGFPPGSNGDTFL KGLQVRPAPLSAELQAALAMEPTPGGVKYIIVT QVGPGPQ ILDDPCAHL L GPDGLPKPAA
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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Uniprot ID	P53602
Chromosome Location	16q24.3
Pathway	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;
Function	ATP binding; Hsp70 protein binding; diphosphomevalonate decarboxylase activity; diphosphomevalonate decarboxylase activity; kinase activity;

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