

Recombinant Human MVD, His-tagged

Cat. No. MVD-26959TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 25-400 of Human MVD with an N terminal His tag; MWt 55kDa ;
Species	Human
Source	E.coli
ProteinLength	25-400 a.a.
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
Tissue specificity	Expressed in heart, skeletal muscle, lung, liver, brain, pancreas, kidney and placenta.
Form	Lyophilised:Reconstitute with 90 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

GKRDEELVLPINSSLSVTLHQDQLKTTTTAVISKDFTEDR IWLNGREEDVGQPRLQA
CLREIRCLARKRRNSRDGDPL PSSLSCKVHVASVNNFPTAAGLASSAAGYACLAYT
LAR VYGVESDLSEVARRGSGSACRSLYGGFVEWQMGEQADG KDSIARQVAPESH
WPELRVLILVVSAAEKKLTGSTVGMRASVETSPLLRFRAESVVPARMAEMARCIRERD
FPSFAQLT MKDSNQFHATCLDTFPPISYLN AISWRIIHLVHRFNAH HGDTKVAYTFD
AGPNAVIFTLDDTVAEFVAAVWHGFPP GSNGDTFLKGLQVRPAPLSAELQAALAME
PTPGGVKYI IVTQVGPGPQILDDPCAHL 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

Uniprot ID P53602

Chromosome Location 16q24.3

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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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