

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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids

GKRDEELVLPINSSLSVTLHQDQLKTTTTAVISKDFTEDR IWLNGREEDVGGPRLQA
 CLREIRCLARKRRNSRDGDPL PSSLSCKVHVASVNNFPTAAGLASSAAGYACLAYT
 LAR VYGVESDLSEVARRGSGSACRSLYGGFVEWQMGEQADG KDSIARQVAPESH
 WPELRVLILVVSAAEKKLTGSTVGMRASVETSPLLRFRAESVVPARMAEMARCIRERD
 FPSFAQLT MKDSNQFHATCLDTFPPISYLN AISWRIIHLVHRFNAH HGDTKVAYTFD
 AGPNAVIFTLDDTVAEFVAAVWHGFPP GSNGDTFLKGLQVRPAPLSAELQAALAME
 PTPGGVKYI IVTQVGGPGQILDDPCAHL L 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA