



# Recombinant Human Diphosphomevalonate decarboxylase (MVD)

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| <b>Product Code</b>      | CSB-EP015246HU  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | P53602  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Homo sapiens (Human)  |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | <p>ASEKPLAAV TCTAPVNIIV IKYWGKRDEE LVLPINSSLS VTLHQDQLKT<br/>           TTTAVISKDF TEDRIWLNGR EEDVGQPRQL ACLREIRCLA RKRRNSRDGD<br/>           PLPSSLCKV HVASVNNFPT AAGLASSAAG YA CLAYTLAR VYGVESDLSE<br/>           VARRGSGSAC RSLYGGFVEW QMGEQADGKD SIARQVAPES HWPELRLVIL<br/>           VVSAEKKLTG STVGMRASVE TSPLLRFRAE SVVPARMAEM ARCIRERDFP<br/>           SFAQLTMKDS NQFHATCLDT FPPISYLNAI SWRIIHLVHR FNAHHGDTKV<br/>           AYTFDAGPNA VIFTLDDTVA EFVAAVWHGF PPGSNGDTFL KGLQVRPAPL<br/>           SAELQAALAM EPTPGGVKYI IVTQVGP GPQ ILDDPCAHLL GPDGLPKPAA</p> |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | MVD   |
| <b>Protein Names</b>     | <p>Recommended name: Diphosphomevalonate decarboxylase EC= 4.1.1.33<br/>           Alternative name(s): Mevalonate (diphospho)decarboxylase Short name=<br/>           MDDase Mevalonate pyrophosphate decarboxylase</p>  |
| <b>Expression Region</b> | 2-400   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | Full Length of Mature Protein   |
| <b>Target Details</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>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.   |
| <b>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life  |



of lyophilized form is 12 months at -20°C/-80°C.