
Product Data Sheet

Product Name: MVD Human
 Cat. No.: GP21965
 Batch No.: 1

Product Data

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|---------------------|--|--------------------|-------------------------|
| Purity | >98% | Source | E.coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Diphosphomevalonate decarboxylase; Mevalonate (diphospho)decarboxylase; MDDase; Mevalonate pyrophosphate decarboxylase; MVD; MPD; FP17780. | | |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MASEKPLAAV TCTAPVNI AV IKYWGKRDEE LVLPINSSLS VTLHQDQLKT TTTAVISKDF TEDRIWLNGR EEDVGQPR LQ ACLREIRCLA RKRRNSRDGD PLPSSLCKV HVASVNNFPT AAGLASSAAG YACLAYTLAR VYGVESDLSE VARRGSGSAC RSLYGGFVEW QMGEQADGKD SIARQVAPES HWPELRVLIL VVSAEKKLTG STVGMRASVE TSPLLRFRAE SVVPARMAEM ARCIRERDFP SFAQLTMKDS NQFHATCLDT FPPISYLNAI SWRIIHLVHR FNAHHGDTKV AYTFDAGPNA VIFTLDDTVA EFVAAVWHGF PPGSNGDTFL KGLQVRPAPL SAELQAALAM EPTPGGVKYI IVTQVGP GPQ ILDDPCAHL L GPDGLPKPAA. | | |
| Formulation | The MVD solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT. | | |

Introduction

Diphosphomevalonate decarboxylase (MVD) catalyzes the conversion of mevalonate pyrophosphate into isopentenyl pyrophosphate in one of the early steps in cholesterol biosynthesis. MVD decarboxylates and dehydrates its substrate while hydrolyzing ATP. MVD is expressed in the heart, skeletal muscle, lung, liver, brain, pancreas, kidney and placenta.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

MVD Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 420 amino acids (1-400) and having a molecular mass of 45.6kDa. MVD is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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