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MVD Human

Catalog #:ENPS-233

For research use only.

Description: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.

Synonyms: Diphosphomevalonate decarboxylase, Mevalonate (diphospho)decarboxylase, MDDase, Mevalonate pyrophosphate decarboxylase, MVD, MPD, FP17780.

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MASEKPLAAV TCTAPVNIAV IKYWGKRDEE LVLPINSSLS VTLHQDQLKT TTTAVISKDF TEDRIWLNGR EEDVGQPRLQ ACLREIRCLA RKRRNSRDGD PLPSSLSCKV HVASVNNFPT AAGLASSAAG YACLAYTLAR VYGVESDLSE VARRGSGSAC RSLYGGFVEW QMGEQADGKD SIARQVAPES HWPELRVLIL VVSAEKKLTG ST

Purity: Greater than 85% as determined by SDS-PAGE.

Formulation:
The MVD solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT.

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

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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.

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