

Recombinant human MVD protein

Catalog Number: ATGP1354

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-400aa

UniProt No.

P53602

NCBI Accession No.

NP_002452

Alternative Names

diphosphomevalonate decarboxylase, MPD

PRODUCT SPECIFICATION

Molecular Weight

45.6 kDa (420aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

MVD, also known as diphosphomevalonate 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. Recombinant human MVD protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MASEKPLAAV TCTAPVNIIV IKYWGKRDEE LVLPINSSLS VTLHQDQLKT TTTAVISKDF

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TEDRIWLNGR EEDVGQPR LQ ACLREIRCLA RKRRNSRDGD PLPSSL SCKV HVASVNNFPT AAGLASSAAG YA CLAYTLAR
VYGVESDLSE VARRGSGSAC RSLYGGFVEW QMGEQADGKD SIARQVAPES HWPELRVLIL VVSAEKKLTG STVGMRASVE
TSPLLRFR AE SVVPARMAEM ARCIRERDFP SFAQLTMKDS NQFHATCLDT FPPISYLNAI SWRIIHLVHR FNAHHGDTKV
AYTFDAGPNA VIFTLDDTVA EFVA AVWHGF PPGSNGDTFL KGLQVRPAPL SAELQAALAM EPTPGGVKYI IVTQVGPGPQ
ILDDPCAHL L GPDGLPKPAA

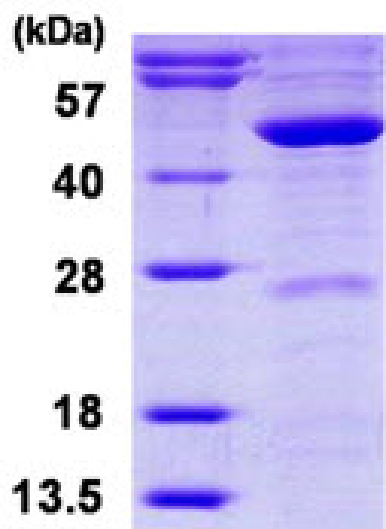
General References

Toth M.J., et al. (1996) J. Biol. Chem. 271:7895-7898

Molina H., et al. (2007) Proc. Natl. Acad. Sci. u.S.A. 104:2199-2204

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)