

MVD, 1-400aa, Human, His tag, E.coli

Cat.NO.: TP03053

3th Edition

Synonyms:Diphosphomevalonate decarboxylase, MPD.

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.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT

Molecular Weight:45.6 kDa (420aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMASEKPLAAVTCTAPVNIAMIKYWGKRDEELVLPINSSLSVTLHQDQLKTTTTAVIS
KDFTEDRIWLNGREEDVGGPRLQACLREIRCLARKRRNSRDGDLPSLSCKVHVASVNNFPTAAGLASSAAGYA
CLAYTLARVYGVESDLSEVARRGSGSACRSLYGGFVEWQMGEQADGKDSIARQVAPESHWPELRVLILVVSAEKK
LTGSTVGMRASVETSPLLRFRAESVVPARMAEMARCIRERDFPSFAQLTMKDSNQFHATCLDFTFPPISYLNAIWRI
IHLVHRFNAHHGDTKVAYTFDAGPNAVIFTLDDTVAEFVAAVWHGFPPGSGNGDTFLKGLQVRPAPLSAELQAALAM
EPTPGGVKYYIIVTQVGPQPILDDPCAHELLGPDGLPKPAA

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.