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32-2465: IDI1 Recombinant Protein

Alternative Name : Isopentenyl-diphosphate Delta-isomerase 1,Isopentenyl pyrophosphate isomerase 1,IPP isomerase 1,IPPI1,IDI1,IPP1.

Description

Source : E.coli. IDI1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 248 amino acids (1-228) and having a molecular mass of 28.6kDa.IDI1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Isopentenyl-diphosphate isomerase 1 (IDI1) belongs to the IPP isomerase type I family and is involved in cholesterol biosynthesis. IDI1 is a peroxisomally-localized enzyme which catalyzes the interconversion of isopentenyl diphosphate (IPP) to its highly electrophilic isomer, dimethylallyl diphosphate (DMAPP), which is the substrate for the sequential reaction that results in the synthesis of farnesyl diphosphate and, eventually, cholesterol. Peroxisomal deficiency diseases such as Zellweger syndrome and neonatal adrenoleukodystrophy show a reduction in IPP isomerase activity.

Product Info

Amount :	10 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	The IDI1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MMPEINTNHL DKQQVQLLAE MCILIDENDN KIGAETKKNC HLNENIEKGL LHRAFSVFLF NTENKLLLQQ RSDAKITFPG CFTNTCCSHP LSNPAELEES DALGVRRAAQ RRLKAELGIP LEEVPPEEIN YLTRIHYKAQ SDGIWGEHEI DYILLVRKNV TLNPDPNEIK SYCYVSKEEL KELLKKAASG EIKITPWFKI IAATFLFKWW DNLNHLNQFV DHEKIYRM.

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