

Recombinant Human Isopentenyl-Diphosphate Isomerase 1, His-tagged

Cat. No. IDI1-1527H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IDI1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	Isopentenyl-diphosphate isomerase 1, also known as IDI1, is a member of the IPP isomerase type I family and is involved in cholesterol biosynthesis. IDI1 is a peroxisomally-localized enzyme that catalyzes the interconversion of isopentenyl diphosphate (IPP) to its highly electrophilic isomer, dimethylallyl diphosphate (DMAPP), which is the substrates for the successive reaction that results in the synthesis of farnesyl diphosphate and, ultimately, cholesterol.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl
Molecular Weight	28.6 kDa (248aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of amino	MGSSHHHHHH SSGLVPRGSH RSDAKITFPG CFTNTCCSHP LSNPAEELES

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acids

DALGVRRAAQ RRLKAELGIP LEEVPPEEIN YLTRIHYKAQ SDGIWGEHEI
 DYILLVRKNV TLNPDPNEIK SYCYVSKEEL KELLKKAASG EKITPWFKI
 IAATFLFKWW DNLNHLNQFV DHEKIYRM MMPEINTNHL DKQQVQLLAE
 MCILIDENDN KIGAETKKNC HLNENIEKGL LHRAFSVFLF NTENKLLLQQ

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.

GENE INFORMATION

Gene Name [IDI1 isopentenyl-diphosphate delta isomerase 1 \[Homo sapiens \]](#)

Official Symbol [IDI1](#)

Synonyms IPP1; IPPI1; EC 5.5.5.2; IPP isomerase; IPP isomerase; OTTHUMP00000018951; isopentenyl diphosphate dimethylallyl diphosphate isomerase 1; isopentenyl pyrophosphate isomerase 1; isopentenyl-diphosphate delta isomerase

Gene ID [3422](#)

mRNA Refseq [NM_004508](#)

Protein Refseq [NP_004499](#)

MIM [604055](#)

UniProt ID [Q13907](#)

Chromosome Location [10p15.3](#)

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Function

hydrolase activity; isomerase activity; metal ion binding; isopentenyl-diphosphate
delta-isomerase activity

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