

# Recombinant Human Isopentenyl-Diphosphate Isomerase 1, His-tagged

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant human IDI1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	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.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl
<b>Molecular Weight</b>	28.6 kDa (248aa), confirmed by MALDI-TOF
<b>Purity</b>	> 90% by SDS - PAGE
<b>Concentration</b>	1 mg/ml (determined by Bradford assay)
<b>Sequences of amino</b>	MGSSHHHHHH SSGLVPRGSH RSDAKITFPG CFTNTCCSHP LSNPAELEES

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**acids**

DALGVRRAAQ RRLKAELGIP LEEVPPEEIN YLTRIHYKAQ SDGIWGEHEI  
 DYILLVRKNV TLNPDNEIK SYCYVSKEEL KELLKKAASG EIKITPWFKI  
 IAATFLFKWW DNLNHLNQFV DHEKIYRM MMPEINTNHL DKQQVQLLAE  
 MCILIDENDN KIGAETKNC 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** [ID11 isopentenyl-diphosphate delta isomerase 1 \[ Homo sapiens \]](#)

**Official Symbol** [ID11](#)

**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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