

Recombinant Human Isopentenyl-Diphosphate Delta Isomerase 2, His-tagged

Cat. No. IDI2-1710H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IDI2 protein, fused to His-tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography.
Species	Human
Source	Human
Description	IDI2, also known as isopentenyl-diphosphate delta-isomerase 2, belongs to the IPP isomerase type 1 family. IDI2 catalyzes the 1,3-allylic rearrangement of the homoallylic substrate isopentenyl (IPP) to its highly electrophilic allylic isomer, dimethylallyl diphosphate (DMAPP).
Concentration	0.5 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 10% glycerol, 1mM DTT and 0.1mM PMSF.
Purity	> 80% by SDS - PAGE
Sequence	1-227 amino acids: MGSSHHHHHH SSGLVPRGSH MSDINLDWVD RRQLQRLEEM LIVVDENDKV IGADTKRNCH LNIENIEKGLL HRAFSVVLFN TKNRILIQQR SDTKVTFPGY FTDSCSSHPL YNPAALEEKD AIGVRRAAQR RLQAELGIPG EQISPEDIVF MTIYHHKAKS DRIWGEHEIC YLLLVRKNVT LNPDPSETKS ILYLSQEELW ELLEREARGE VKVTP

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Molecular Mass	28.9 kDa (247aa), confirmed by MALDI-TOF
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	IDI2 isopentenyl-diphosphate delta isomerase 2 [Homo sapiens]
Official Symbol	IDI2
Synonyms	IDI2; isopentenyl-diphosphate Delta-isomerase 2; IPP isomerase 2; OTTHUMP00000018952; isopentenyl pyrophosphate isomerase 2; diphosphate dimethylallyl diphosphate isomerase 2; EC=5.3.3.2
Gene ID	91734
mRNA Refseq	NM_033261
Protein Refseq	NP_150286
UniProt ID	Q9BXS1
Chromosome Location	10p15.3
Pathway	C5 isoprenoid biosynthesis; Cholesterol biosynthesis; Metabolic pathways; Metabolism of lipids and lipoproteins; Terpenoid backbone biosynthesis; mevalonate pathway I; superpathway of cholesterol biosynthesis; superpathway of

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geranylgeranyldiphosphate biosynthesis I (via mevalonate); trans,trans-farnesyl diphosphate biosynthesis

Function

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

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