

Recombinant Human IDI1, His-tagged

Cat. No. IDI1-26060TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length Human IDI1 with a N terminal His tag. 248 amino acids with a predicted MWt 28.6 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	228 amino acids
Description	IDI1 encodes a peroxisomally-localized enzyme that catalyzes the interconversion of isopentenyl diphosphate (IPP) to its highly electrophilic isomer, dimethylallyl diphosphate (DMAPP), which are the substrates for the successive reaction that results in the synthesis of farnesyl diphosphate and, ultimately, cholesterol. It has been shown in peroxisomal deficiency diseases such as Zellweger syndrome and neonatal adrenoleukodystrophy that there is reduction in IPP isomerase activity.
Conjugation	HIS
Molecular Weight	28.600kDa inclusive of tags
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 0.02% DTT, 10% Glycerol, 0.58% Sodium

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	chloride
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMMPEINTNHLDKQQVQLLAE MCILIDENDNKIGAET KKNCHLNENIEKGLLHRAFSVF LFNTENKLLLQQRSDAKITFPGCFTNTCCSHPLSN PAELE ESDALGVRRAAQRRLLKAE LGIPLEEVPP E EINYLTRIH YKAQSDGIWGEHEI DYILLVRKNVTLPDPNEIKSYCYVS KEELKELLKKAASGEIKITPWFKIIAATFLFKW WDNLN HLNQFVDHEKIYRM
Sequence Similarities	Belongs to the IPP isomerase type 1 family. Contains 1 nudix hydrolase domain.
GENE INFORMATION	
Gene Name	IDI1 isopentenyl-diphosphate delta isomerase 1 [Homo sapiens]
Official Symbol	IDI1
Synonyms	IDI1; isopentenyl-diphosphate delta isomerase 1; isopentenyl diphosphate delta isomerase; isopentenyl-diphosphate Delta-isomerase 1; IPP isomerase;
Gene ID	3422
mRNA Refseq	NM_004508
Protein Refseq	NP_004499
MIM	604055

Uniprot ID	Q13907
Chromosome Location	10p15.3
Pathway	C5 isoprenoid biosynthesis, mevalonate pathway, organism-specific biosystem; C5 isoprenoid biosynthesis, mevalonate pathway, conserved biosystem; Cholesterol Biosynthesis, organism-specific biosystem; Cholesterol biosynthesis, organism-specific biosystem; Diurnally regulated genes with circadian orthologs, organism-specific biosystem;
Function	hydrolase activity; isomerase activity; isopentenyl-diphosphate delta-isomerase activity; metal ion binding;

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