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Datasheet for ABIN1096990

**IPP Isomerase 2 Protein (IDI2) (AA 1-227) (His tag)**

## Overview

Quantity:	50 µg
Target:	IPP Isomerase 2 (IDI2)
Protein Characteristics:	AA 1-227
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IPP Isomerase 2 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Isopentenyl Pyrophosphate Isomerase 2//IPPI2/IDI2 (N-6His)
Sequence:	MGSSHHHHHH SSSLVPRGSH MSDINLDWVD RRQLQRLEEM LIVVDENDKV IGADTKRNCH LNENIEKGLL HRAFSVVLFN TKNRILIQQR SDTKVTFPGY FTDCSSSHPL YNPAAELEEKD AIGVRRAAQR RLQAELGIPG EQISPEDIVF MTIYHHKAKS DRIWGEHEIC YLLLVRKNVT LNPDPSSETKS ILYLSQEELW ELLEREARGE VKVTPWLRTI AERFLYRWWP HLDDVTPFVE LHKIHRV
Characteristics:	Recombinant Human Isopentenyl Pyrophosphate Isomerase 2/IPP Isomerase 2 is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Val227) of Human IDI2 fused with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	IPP Isomerase 2 (IDI2)
Alternative Name:	IPP-isomerase-2 ( <a href="#">IDI2 Products</a> )
Sub Type:	Fusionprotein
Background:	<p>Isopentenyl Pyrophosphate Isomerase 2 (IDI2) belongs to the IPP isomerase type 1 family. Both isozymes, IDI1 and IDI2 are localized to the peroxisome by a PTS1-dependent pathway. IDI2 is expressed in skeletal muscle, which contains one nudix hydrolase domain. IDI2 binds one magnesium per subunit. IDI2 catalyzes the 1,3-allylic rearrangement of the homoallylic substrate isopentenyl (IPP) to its highly electrophilic allylic isomer, dimethylallyl diphosphate (DMAPP). It is reported that IDI2 is regulated independently from IDI1, by a mechanism that may involve PPAR-alpha.</p> <p>Alternative Names: Isopentenyl-Diphosphate Delta-Isomerase 2, Isopentenyl Pyrophosphate Isomerase 2, IPP Isomerase 2, IPPI2, IDI2</p>

Molecular Weight: 28.9 kDa

UniProt: [Q9BXS1](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 1 mM DTT, 0.1 mM PMSF, pH 8.0.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	<p>Store at &lt; -20°C, stable for 6 months after receipt.</p> <p>Please minimize freeze-thaw cycles.</p>

## Handling

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Expiry Date: 6 months