IDI2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	IDI2, Recombinant Protein
Full Product Name	Recombinant Human IDI2 Protein
Product Gene Name	IDI2 recombinant protein
Product Synonym Names	Isopentenyl-diphosphate delta-isomerase 2; Isopentenyl pyrophosphate isomerase 2; IPP isomerase 2; IPPI2
Sequence	MGSSHHHHHH SSGLVPRGSH MSDINLDWVD RRQLQRLEEM LIVVDENDKV IGADTKRNCH LNENIEKGLL HRAFSVVLFN TKNRILIQQR SDTKVTFPGY FTDSCSSHPL YNPAELEEKD AIGVRRAAQR RLQAELGIPG EQISPEDIVF MTIYHHKAKS DRIWGEHEIC YLLLVRKNVT LNPDPSETKS ILYLSQEELW ELLEREARGE VKVTPWLRTI AERFLYRWWP HLDDVTPFVE LHKIHRV
Host	E Coli
Species Reactivity	Human
Form/Format	Supplied as a 0.2 muM filtered solution of 20mM Tris-HCl, 1mM DTT, 0.1mM PMSF, pH 8.0.
Purity/Purification	Greater than 95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at -20 degree C for 3 months.
Molecular Weight	26,753 Da
OMIM	AF291755 Genomic DNA
3D Structure	ModBase 3D Structure for Q9BXS1
Endotoxin	Less than 0.1 ng/mug (1 IEU/mug) as determined by LAL test.
Directions for Use	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 mug/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Applications Tested/Suitable for IDI2 recombinant protein	ELISA (EIA),Western Blot (WB), SDS-PAGE, Mass Spectrometry (MS)
Related Product Information for IDI2 recombinant protein	Recombinant Human IDI2 Protein is produced by our E Coli expression system and the target gene encoding Met1-Val227 is expressed with a 6His tag at the N-terminus.
Other Notes	Small volumes of IDI2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IDI2 purchase	MBS8249190 is a recombinant protein targeting IDI2. Also known as Recombinant Human IDI2 Protein. Reactive in Human. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IDI2. It may not necessarily be applicable to this product.

NCBI GI #	15147242
NCBI GeneID	91734
NCBI Accession #	NP_150286.1

UniProt Primary Accession #	Q9BXS1
UniProt Related Accession #	Q9BXS1
GenBank Nucleotide #	NM_033261.2
NCBI Official Full Name	isopentenyl-diphosphate delta-isomerase 2
NCBI Official Synonym Full Names	isopentenyl-diphosphate delta isomerase 2
NCBI Official Symbol	IDI2
NCBI Official Synonym Symbols	IPPI2
UniProt Protein Name	Isopentenyl-diphosphate delta-isomerase 2
UniProt Synonym Protein Names	Isopentenyl pyrophosphate isomerase 2; IPP isomerase 2; IPPI2
Protein Family	Isopentenyl-diphosphate Delta-isomerase
UniProt Gene Name	IDI2
UniProt Synonym Gene Names	IPP isomerase 2; IPPI2
UniProt Entry Name	IDI2_HUMAN
NCBI Protein Information	isopentenyl-diphosphate delta-isomerase 2
NCBI Summary for IDI2	The protein encoded by this gene catalyzes the conversion of isopentenyl diphosphate to dimethylallyl diphosphate, which is a precursor for the synthesis of cholesterol and other isoprenoids. This gene, which is a product of an ancestral gene duplication event, encodes a protein that may be involved in the aggregation of alpha-synuclein in the cerebral cortex of patients with Lewy body disease. In addition, segmental copy number gains in this locus have been associated with sporadic amyotrophic lateral sclerosis. [provided by RefSeq, Jul 2016]
UniProt Comments for IDI2	IDI2: Catalyzes the 1,3-allylic rearrangement of the homoallylic substrate isopentenyl (IPP) to its highly electrophilic allylic isomer, dimethylallyl diphosphate (DMAPP). Belongs to the IPP isomerase type 1 family. Protein type: EC 5.3.3.2; Isomerase; Secondary Metabolites Metabolism - terpenoid backbone biosynthesis Chromosomal Location of Human Ortholog: 10p15.3 Cellular Component: cytosol; peroxisome Molecular Function: isopentenyl-diphosphate delta-isomerase activity Biological Process: cholesterol biosynthetic process; isopentenyl diphosphate biosynthetic process; isopentenyl diphosphate metabolic process; isoprenoid biosynthetic process
Research Articles on IDI2	**1.** The present findings suggest that IDI1 and IDI2 may be associated with the production of cholesterol metabolites in neurons, leading to alpha-synuclein aggregation during the process of Lewy body formation.
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