

Recombinant Human IMPDH2, His-tagged

Cat. No. IMPDH2-28270TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human IMPDH2 with N-terminal His tag. 534 amino acids with a MWt 58kDa including tag.
Species	Human
Source	E.coli
ProteinLength	514 amino acids
Description	This gene encodes the rate-limiting enzyme in the de novo guanine nucleotide biosynthesis. It is thus involved in maintaining cellular guanine deoxy- and ribonucleotide pools needed for DNA and RNA synthesis. The encoded protein catalyzes the NAD-dependent oxidation of inosine-5-monophosphate into xanthine-5-monophosphate, which is then converted into guanosine-5-monophosphate. This gene is up-regulated in some neoplasms, suggesting it may play a role in malignant transformation.
Conjugation	HIS
Molecular Weight	58.000kDa inclusive of tags
Tissue specificity	IMP type I is the main species in normal leukocytes and type II predominates over type I in the tumor.
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 0.03% DTT, 20% Glycerol, 0.88% Sodium 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	MGSSHHHHHSSGLVPRGSHMADYLISGGTSYVPDDGLTAQQLFNCGDGLTYNDF LILPGYIDFTADQVDLTSAITKKITLKTPLVSSPMDTVTEAGMAIAMALTGGIGFIHHNC TPEFQANEVRKVKKYEQGFITDPVVLSPKDRVRDVFEAKARHGFCGIPITDTGRMG RLVGISSRDIDFLKEEEHDCFLEEIMTKREDLVVAPAGITLKEANEILQRSKKGKLP IVNEDDELVAIIARTDLKKNRDYPLASKDAKKQLLCGAAIGTHEDDKYRLDLAQAQGV DVVLDSSQGNISIFQINMIKIYKDKYPNLQVIGGNVVTAAQAKNLIDAGVDALRVGM SGSICITQEVLCGRPQATAVYKVSEYARRFGVPVIADGGIQNVGHIKALALGASTVM MMGSLLAATTEAPGEYFFSDGIRLKKYRGMGSLDAMDKHLSSQNRYFSEADKIKVAQ QGVSQAVQDKGSIHKFVPYLIAGIQHSCQDIGAKSLTQVRAMMYSSELKFEKRTSSAQ VEGGVHSLHSYEKRLF
Sequence Similarities	Belongs to the IMPDH/GMPR family. Contains 2 CBS domains.
GENE INFORMATION	
Gene Name	IMPDH2 IMP (inosine 5-monophosphate) dehydrogenase 2 [Homo sapiens]
Official Symbol	IMPDH2
Synonyms	IMPDH2; IMP (inosine 5-monophosphate) dehydrogenase 2; inosine-5-monophosphate dehydrogenase 2;

Gene ID	3615
mRNA Refseq	NM_000884
Protein Refseq	NP_000875
Uniprot ID	P12268
Chromosome Location	3p21.2
Pathway	Drug metabolism - other enzymes, organism-specific biosystem; Drug metabolism - other enzymes, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem;
Function	DNA binding; IMP dehydrogenase activity; RNA binding; metal ion binding; nucleotide binding;

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