

Active Recombinant Human IMPDH2 Protein, His tagged

Cat. No. IMPDH2-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IMPDH2 Protein with His tag was expressed in Baculovirus-Insect Cells.
Species	Human
Source	Insect Cells
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.
Bio-activity	Measured by its ability to convert the substrate inosine 5' phosphate (IMP) to xanthosine 5' phosphate (XMP). The specific activity is 136 pmol/min/μg as measured under the described conditions.
Molecular Mass	The protein has a calculated MW of 57 kDa.
AA Sequence	MADYLISGGTSYVPDDGLTAQQLFNCGDGLTYNDFLILPGYIDFTADQVDLTSALTKK ITLKTPLVSSPMDTVTEAGMAIAMALTGGIGFIHHNCTPEFQANEVRKVKKYEQGFIT DPVVLSPKDRVRDVFEAKARHGFCGIPITDTGRMGSRVLGIISSRDIDFLKEEEHDCF LEEIMTKREDLVVAPAGITLKEANEILQRSKKGKLPVNEDELVAIIARTDLKKNRDYP

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LASKDAKKQLLCGAAIGTHEDDKYRLDLLAQAGVDVVLDSSQGNSIFQINMIKIYIKD
 KYPNLQVIGGNVVTAAQAKNLIDAGVDALRVGMGSGSICITQEV LACGRPQATAVYK
 VSEYARRFGVPVIADGGIQNVGHIKALALGASTVMMGSLLAATTEAPGEYFFSDGI
 RLKKYRGMGSLDAMDKHLSSQNRYFSEADKIKVAQGVSGAVQDKGSIHKFVPYLIA
 GIQHSCQDIGAKSLTQVRAMMYSGELKFEKRTSSAQVEGGVHSLHSYEKRLFHHHHH
 HHHHHH

Endotoxin < 0.1 EU/μg by LAL

Purity > 90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.33 mg/mL by Bradford

Storage Buffer Sterile 20 mM Tris, 0.5M NaCl, 10% glycerol, 2mM DTT, pH 8.0

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; IMPD 2; IMPDH 2; IMP oxireductase 2; inosine 5 phosphate dehydrogenase 2; IMP (inosine monophosphate) dehydrogenase 2; inosine monophosphate dehydrogenase type II; IMPD2; IMPDH-II;

Gene ID 3615

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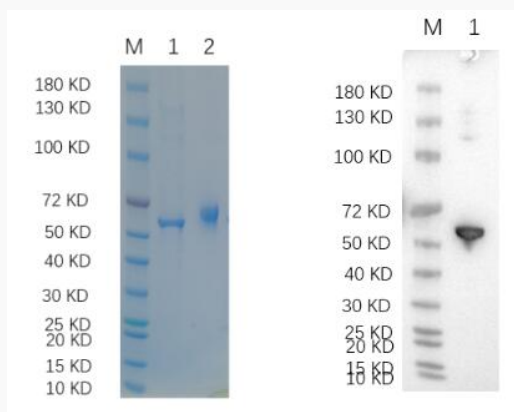
mRNA Refseq [NM_000884](#)

Protein Refseq [NP_000875](#)

MIM 146691

UniProt ID [P12268](#)

Reducing 12% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal Antibody) analysis profile of purified IMPDH2.



1. IMPDH2
2. BSA

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