

Recombinant Full Length Human IMPDH2 Protein, GST-tagged

Cat. No. IMPDH2-5866HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human IMPDH2 full-length ORF (AAH12840, 1 a.a. - 514 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
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. [provided by RefSeq]
Molecular Mass	82.17 kDa
AA Sequence	MADYLISGGTSYVPDDGLTAQQLFNCGDGLTYNDFLILPGYIDFTADQVDLTSALTKK ITLKTPLVSSPMDTVTEAGMAIAMALTGGIGFIHNNCTPEFQANEVRKVKKYEQQGIT DPVVLSPKDRVRDVFEAKARHGFCGIPITDTGRMGSRVLVGISSRDIDFLKEEEHDCF LEEIMTKREDLVVAPAGITLKEANEILQRSKKGKLPVNEDELVAIIARTDLKKNRDYP LASKDAKKQLLCGAAIGTHEDDKYRLDLLAQAGVDVVLDSSQGNSIFQINMIKYIKD KYPNLQVIGGNVVTAAQAKNLIDAGVDALRVGMGSGSICITQEV LACGRPQATAVYK

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VSEYARRFGVPVIADGGIQNVGHIKALALGASTVMMGSLLAATTEAPGEYFFSDGI
 RLKKYRGMGSLDAMDKHLSSQNRYPSEADKIKVAQGVSGAVQDKGSIHKFVPYLIA
 GIQHSCQDIGAKSLTQVRAMMYSGELKFEKRTSSAQVEGGVHSLHSYEKRLF

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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
mRNA Refseq	NM_000884
Protein Refseq	NP_000875

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MIM	146691
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UniProt ID	P12268
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