

## Product datasheet for **TP302977L**

### **IMPDH2 (NM\_000884) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human IMP (inosine monophosphate) dehydrogenase 2 (IMPDH2), 1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC202977 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MADYLISGGTSYVPDDGLTAQQLFNCGDGLTYNDFLILPGYIDFTADQVDLTSALTKKITLKTPLVSSPM  
DTVTEAGMAIAMALTGGIGFIHHNCTPEFQANEVRKVKKYEQGFITDPVWVLSPKDRVRDVF EAKARHGFC  
GIPITDTGRMG SRLVGISSRDIDFLKEEHDCLFEEIMTKREDLVVAPAGITLKEANEILQRSKK GKLP  
IVNEDDELVAIIARTDLKKNRDYPLASKDAKKQLLCGAAIGTHEDDKYRLDLLAQAGVDVVVLDSSQGNS  
IFQINMIKIYIKDKYPNLQVIGGNWVTAQAQAKNLIDAGVDALRVGMGSGSICITQEV LACGRPQATAVYKV  
SEYARRFGVPVIADGGIQNVGHIAKALGASTVMMGSLAATTEAPGEYFFSDGIRLKKYRGMGSLDAM  
DKHLSSQNRYFSEADKIKVAQGVSGAVQDKGSIHKFVPLYIAGIQHSCQDIGAKSLTQVRAMMYS GELKF  
EKRTSSAQVEGGVHSLHSYEKRLF

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

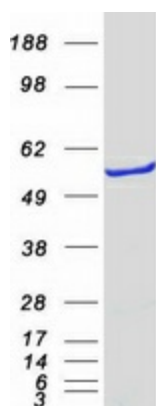
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	55.6 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_000875</a>
<b>Locus ID:</b>	3615
<b>UniProt ID:</b>	<a href="#">P12268</a> , <a href="#">A0A384N6C2</a>
<b>RefSeq Size:</b>	1712
<b>Cytogenetics:</b>	3p21.31
<b>RefSeq ORF:</b>	1542
<b>Synonyms:</b>	IMPD2; IMPDH-II
<b>Summary:</b>	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, Jul 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Drug metabolism - other enzymes, Metabolic pathways, Purine metabolism

### Product images:



Coomassie blue staining of purified IMPDH2 protein (Cat# [TP302977]). The protein was produced from HEK293T cells transfected with IMPDH2 cDNA clone (Cat# [RC202977]) using MegaTran 2.0 (Cat# [TT210002]).