

Product datasheet for **TP302977**

IMPDH2 (NM_000884) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human IMP (inosine monophosphate) dehydrogenase 2 (IMPDH2), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202977 protein sequence Red =Cloning site Green =Tags(s)

MADYLISGGTSYVPDDGLTAQQLFNCGDGLTYNDFLILPGYIDFTADQVDLTSALTKKITLKTPLVSSPM
DTVTEAGMAIAMALTGGIGFIHHNCTPEFQANEVRKVKKYEQGFITDPVVLSPKDRVRDVFEAKARHGFC
GIPITDTGRMGSRVLVGISSRDIDFLKEEEHDCFLEEIMTKREDLVVAPAGITLKEANEILQRSKKGKLP
IVNEDDELVAIIARTDLKKNRDYPLASKDAKKQLLCGAAIGTHEDDKYRLDLLAQAGVDVWLDSSQGNS
IFQINMIKYIKDKYPNLQVIGGNVVTAAQAKNLIDAGVDALRVGMGSGSICITQEV LACGRPQATAVYKV
SEYARRFGVPVIADGGIQNVGHIKALALGASTVMMGSLAATTEAPGEYFFSDGIRLKKYRGMGSLDAM
DKHLSSQNRYFSEADKIKVAQGVSGAVQDKGSIHKFVPLYIAGIQHSCQDIGAKSLTQVRAMMYSGLKFK
EKRTSSAQVEGGVHSLHSYEKRLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

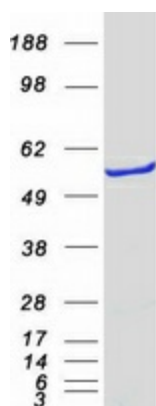
Tag:	C-Myc/DDK
Predicted MW:	55.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity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



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000875
Locus ID:	3615
UniProt ID:	P12268
RefSeq Size:	1712
Cytogenetics:	3p21.31
RefSeq ORF:	1542
Synonyms:	IMPD2; IMPDH-II
Summary:	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]
Protein Families:	Druggable Genome
Protein Pathways:	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]).