

Product datasheet for PH302977

IMPDH2 (NM_000884) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	IMPDH2 MS Standard C13 and N15-labeled recombinant protein (NP_000875)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202977
Predicted MW:	55.8 kDa
Protein Sequence:	>RC202977 protein sequence Red=Cloning site Green=Tags(s)

MADYLISGGTSYVPPDGLTAQQLFNCGDGLTYNDFLILPGYIDFTADQVDLTSALTKKITLTKPLVSSPM
DTVTEAGMAIAMALTGGIGFIHHNCTPEFQANEVRKVKKYEQGFITDPVVLSPKDRVRDVFCAKARHGFC
GIPITDTGRMGSRVLVGISSRDIDFLKEEHEHDCFLKEEIMTKREDLVVAPAGITLKEANEILQRSKKGKLP
IVNEDDELVAIIARTDLKKNRDYPLASKDAKKQLL CGAAIGTHEDDKYRLDLLAQAGVDVVVLDSSQGN
IFQINMIKYIKDKYPNLQVIGGNVVTAAQAKNLIDAGVDALRVGMGSGSICITQEVLACGRPQATAVYKV
SEYARRFGVPIADGGIQNVGHIAKALALGASTVMMGSLLAATTEAPGEYFFSDGIRLKKYRGMGSLDAM
DKHLSSQNRYFSEADKIKVAQGVSGAVQDKGSIHKFVPYLIAGIQHSCQDIGAKSLTQVRAMMYSGLKLF
EKRTSSAQVEGGVHLSHSYEKRLF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000875</u>
RefSeq Size:	1712
RefSeq ORF:	1542



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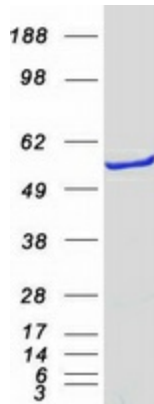
Synonyms: IMPD2; IMPDH-II
Locus ID: 3615
UniProt ID: [P12268](#), [A0A384N6C2](#)
Cytogenetics: 3p21.31

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]).