

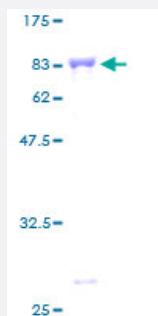
Full-Length

IMPDH2 (Human) Recombinant Protein (P01)

Catalog # H00003615-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human IMPDH2 full-length ORF (AAH12840, 1 a.a. - 514 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MADYLISGGTSYVPDDGLTAQQLFNCGDGLTYNDFLILPGYIDFTADQVDLTSAITKKITLKTPLVSS
PMDTVTEAGMAIAMALTGGIGFIHHNCTPEFQANEVRKVKKYEQGFITDPVVLSPKDRVRDVFEAK
ARHGFCGIPITDTGRMGSRVLGIISSRDIDFLKEEEHDCFLEEIMTKREDLVVAPAGITLKEANEILQR
SKKGKLPVNEDDELVAIARTDLKKNRDYPLASKDAKKQLLCGAAIGTHEDDKYRLDLLAQAGVD
VVVLDSSQGNISIFQINMIKYIKDKYPNLQVIGGNVVTAQAQKNLIDAGVDALRVGMGSGSICITQEV
ACGRPQATAVYKVSEYARRFGVPVIADGGIQNVGHIKALALGASTVMMGSLLAATTEAPGEYFF
SDGIRLKKYRGMGSLDAMDKHLSSQNRYFSEADKIKVAQGVSGAVQDKGSIHKFVPYLIAGIQHSC
QDIGAKSLTQVRAMMYSGELKFEKRTSSAQVEGGVHSLHSYEKRLF

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

82.17

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — IMPDH2

Entrez GeneID[3615](#)**GeneBank Accession#**[BC012840](#)**Protein Accession#**[AAH12840](#)**Gene Name**

IMPDH2

Gene Alias

IMPD2, IMPDH-II

Gene Description

IMP (inosine monophosphate) dehydrogenase 2

Omim ID[146691](#)**Gene Ontology**[Hyperlink](#)**Gene 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]

Other Designations

IMP dehydrogenase 2|IMP oxidoreductase 2|inosine 5' phosphate dehydrogenase 2|inosine monophosphate dehydrogenase 2|inosine monophosphate dehydrogenase type II|inosine monophosphate oxidoreductase 2

Publication Reference

- [Relationship between circulating tumor-associated autoantibodies and clinical outcomes in advanced-stage NSCLC patients receiving PD-1/-L1 directed immune checkpoint inhibition.](#)

Imad Tarhoni, Connor J Wakefield, Revathi Kollipara, Mary Jo Fidler, Marta Batus, Philip Bonomi, Jeffrey A Borgia.

Journal of Immunological Methods 2021 Jan; 490:112956.

Application: Conjugation, Human, Beads, Human serum

- [Reference standards for the detection of anti-mitochondrial and anti-rods/rings autoantibodies.](#)

Calise SJ, Zheng B, Hasegawa T, Satoh M, Isailovic N, Ceribelli A, Andrade LEC, Boylan K, Cavazzana I, Fritzler MJ, de la Torre IG, Hiepe F, Kohl K, Selmi C, Shoenfeld Y, Tincani A, Chan EKL; IUIS Autoantibody Standardization Committee.

Clinical Chemistry and Laboratory Medicine 2018 Feb; [Epub].

Application: LIA, ALBIA, ELISA, Human, Plasma

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Drug metabolism - other enzymes](#)
- [Metabolic pathways](#)
- [Purine metabolism](#)

Disease

- [Arthritis](#)
- [Disease Progression](#)
- [Gastroenteritis](#)
- [Genetic Predisposition to Disease](#)
- [Inflammatory Bowel Diseases](#)
- [Kidney Failure](#)
- [Schizophrenia](#)