

Recombinant Human IMPDH2 Protein, His-tagged

Cat. No. IMPDH2-299H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human IMPDH2(Asp226~Phe514) fused with His tag at N-terminal was expressed in E. coli. |
| Species | Human |
| Source | E.coli |
| ProteinLength | Asp226~Phe514 |
| 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. |
| Form | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. |
| Molecular Mass | 34.8kDa |
| Endotoxin | <1.0EU per 1g (determined by the LAL method) |
| Purity | > 98% |

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| Applications | Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein. |
| Stability | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| Storage | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| Reconstitution | Reconstitute in PBS or others. |

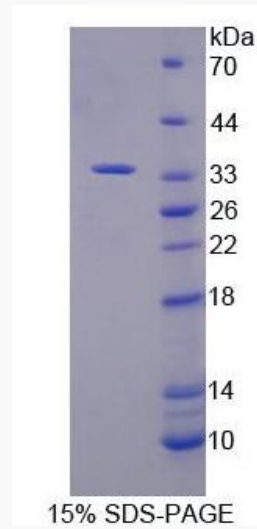
GENE INFORMATION

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| 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 |
| UniProt ID | P12268 |

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