Recombinant Human IMPDH2 Protein, His-tagged

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

SPECIFICATION

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 1μg (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

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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