

## 32-2472: IMPDH2 Recombinant Protein

**Alternative Name :** Inosine-5'-monophosphate dehydrogenase 2,IMP dehydrogenase 2,IMPD 2,IMPDH 2,IMPDH-II,IMPDH2,IMPD2.

### Description

Source : E.coli. IMPDH2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 534 amino acids (1-514) and having a molecular mass of 58kDa. IMPDH2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. IMPDH2 is a member of the IMPDH/GMPR family. IMPDH2 catalyzes the NAD-dependent oxidation of inosine-5'-monophosphate into xanthine-5'-monophosphate, which is afterward converted into guanosine-5'-monophosphate. IMPDH2 is the rate-limiting enzyme in the de novo guanine nucleotide biosynthesis. IMPDH2 is consequently involved in maintaining cellular guanine deoxy- and ribonucleotide pools required for DNA and RNA synthesis. In addition, IMPDH1 and IMPDH2 are targets for the important immunosuppressive drug, mycophenolic acid (MPA). Furthermore, the IMPDH2 gene is up-regulated in some neoplasms, suggesting it may have a role in malignant transformation.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 90% as determined by SDS-PAGE.
<b>Content :</b>	The IMPDH2 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 20% glycerol and 150mM NaCl.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	MGSSHHHHHH SSVLPVPRGSH MADYLISGGT SYVPDDGLTA QQLFNCGDGL TYNDFLILPG YIDFTADQVD LTSALTKKIT LKTPLVSSPM DTVTEAGMAI AMALTGGIGF IHHNCTPEFQ ANEVKVKKY EQGFITDPVV LSPKDRVRDV FEAARHGFC GIPITDTGRM GSRLVGISS RDIDFLKEEE HDCFLEEIMT KREDLVVAPA GITLKEANEI LQSKKKGKLP IVNEDDELVA IIARTDLKKN R DYPLASKDA KKQLLCGAAI GTHEDDKYRL DLLAQAGVDV VVLDSSQGNS IFQINMIKYI KDKYPNLQVI GGNVVTAQA KNLIDAGVDA LRVGMGSGSI CITQEVLAGC RPQATAVYKV SEYARRFGVP VIADGGIQNV GHIKALALG ASTVMMGSLI AATTEAPGEY FFSDGIRLKK YRGMGSLDAM DKHLSSQNRY FSEADKIKVA QGVSGAVQDK GSIHKFVYPY IAGIQHSCQD IGAKSLTQVR AMMYSGELKF EKRTSSAQVE GGVHSLHSYE KRLF.

