

## 32-2471: IMPDH1 Recombinant Protein

**Alternative Name :** EC 1.1.1.205,IMP (inosine monophosphate) dehydrogenase 1,LCA11,RP10,IMPDH 1,IMPD 1,IMPDH-I,SwSS2608,DKFZp781N0678.

### Description

Source : Escherichia Coli. IMPDH1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 534 amino acids (1-514 a.a.) and having a molecular mass of 57.5 kDa. The IMPDH1 is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. IMPDH1 is a rate limiting enzyme in the de novo synthesis of guanine nucleotides and consequently participates in the regulation of cell growth. IMPDH1 takes part in the development of malignancy and the growth progression of some tumors. IMPDH1 performs as a homotetramer to regulate cell growth. IMPDH1 catalyzes the synthesis of xanthine monophosphate (XMP) from inosine-5''-monophosphate (IMP). Defects in this gene are a cause of retinitis pigmentosa type 10 (RP10).

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** IMPDH1 Human solution containing 20mM Tris-HCl pH-8, 1mM DTT & 20% glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MADYLISGGT GYVPEDGLTA QQLFASADGL TYNDFLILPG FIDFIADEVD  
LTSALTRKIT LKTPLISSPM DTVTEADMAI AMALMGGIGF IHHNCTPEFQ ANEVRKVKKF EQGFITDPV  
LPSHTVGDV LEAKMRHGFS GIPITETGTM GSKLVGIVTS RDIDFLAED HTLLSEVMT PRIELVVAPA  
GVTLKEANEI LQRSKKGKLP IVNDCDELVA IIARTDLKKN RDYPLASKDS QKQLCGAAV GTREDDKYRL  
DLLTQAGVDV IVLDSSQGNS VYQIAMVHYI KQKYPHLQVI GGNVVTAQA KNLIDAGVDG LRVGMGCGSI  
CITQEVMACG RPQGTAVYKV AEYARRFGVP IIADGGIQTV GHVVKALALG ASTVMMGSLI AATTEAPGEY  
FFSDGVRLKK YRGMGSLDAM EKSSSSQKRY FSEGDKVKIA QGVSGSIQDK GSIQKFPYPL IAGIQHGCQD  
IGARSLSVLR SMMYSGELKF EKRTMSAQIE GGVHGLHSYE KRLY.

