

## IMPDH1 Human

**Description:** 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.

Catalog #: ENPS-532

For research use only.

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

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MADYLISGGT GYVPEDGLTA  
QLLFASADGL TYNDFLILPG FIDFIADEVDTLSALTRKIT LKTPLISSPMDTVTEADMAI  
AMALMGGIGF IHHNCTPEFQ ANEVKRVKVF EQGFITDPVV LSPSHTVGDV LEAKMRHGFS  
GIPITETGTM GSKLVGIVTS RDIDFLAEKD HTLLSEVMT PRIELVVAPA GVTLKEANEI  
LQSKKGGKLP IVN

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

IMPDH1 Human solution containing 20mM Tris HCL pH-8, 1mM DTT & 20% glycerol.

**Stability:**

IMPDH1 Human although stable at 4°C for 1 week, should be stored desiccated below -18°C.  
Please prevent freeze thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

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).

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