www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

IMPDH1 Human

Catalog #:ENPS-532

For research use only.

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.

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 QQLFASADGL TYNDFLILPG FIDFIADEVD LTSALTRKIT LKTPLISSPMDTVTEADMAI AMALMGGIGF IHHNCTPEFQ ANEVRKVKKF EQGFITDPVV LSPSHTVGDV LEAKMRHGFS GIPITETGTM GSKLVGIVTS RDIDFLAEKD HTTLLSEVMT PRIELVVAPA GVTLKEANEI LQRSKKGKLP 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 althoμgh stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.

Usage:
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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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