

## Product datasheet for AR09523PU-L

#### OriGene Technologies, Inc.

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## IMPDH1 / IMPD1 (1-514, His-tag) Human Protein

### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** IMPDH1 / IMPD1 (1-514, His-tag) human recombinant protein, 0.25 mg

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** 

or AA Sequence:

MGSSHHHHHH SSGLVPRGSH MADYLISGGT GYVPEDGLTA QQLFASADGL TYNDFLILPG

FIDFIADEVD LTSALTRKIT LKTPLISSPM DTVTEADMAI AMALMGGIGF IHHNCTPEFQ ANEVRKVKKF EQGFITDPVV LSPSHTVGDV LEAKMRHGFS GIPITETGTM GSKLVGIVTS RDIDFLAEKD HTTLLSEVMT

PRIELVVAPA GVTLKEANEI LQRSKKGKLP IVNDCDELVA IIARTDLKKN RDYPLASKDS QKQLLCGAAV

GTREDDKYRL DLLTQAGVDV IVLDSSQGNS VYQIAMVHYI KQKYPHLQVI GGNVVTAAQA KNLIDAGVDG LRVGMGCGSI CITQEVMACG RPQGTAVYKV AEYARRFGVP IIADGGIQTV GHVVKALALG ASTVMMGSLL AATTEAPGEY FFSDGVRLKK YRGMGSLDAM EKSSSSQKRY FSEGDKVKIA QGVSGSIQDK GSIQKFVPYL IAGIQHGCQD IGARSLSVLR SMMYSGELKF

EKRTMSAQIE GGVHGLHSYE KRLY

Tag: His-tag

Predicted MW: 57.5 kDa

Concentration: lot specific

Purity: >95% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 20% glycerol

**Preparation:** Liquid purified protein

**Protein Description:** Recombinant human IMPDH1, fused to His-tag at N-terminus, was expressed in E.coli and

purified by using conventional chromatography techniques.

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**RefSeq:** NP 000874

**Locus ID:** 3614



### IMPDH1 / IMPD1 (1-514, His-tag) Human Protein - AR09523PU-L

**UniProt ID:** <u>P20839</u>, <u>B3KRZ3</u>

Cytogenetics: 7q32.1

Synonyms: IMPD; IMPD1; IMPDH-I; LCA11; RP10; sWSS2608

Summary: The protein encoded by this gene acts as a homotetramer to regulate cell growth. The

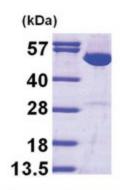
encoded protein is an enzyme that catalyzes the synthesis of xanthine monophosphate (XMP) from inosine-5'-monophosphate (IMP). This is the rate-limiting step in the de novo synthesis of guanine nucleotides. Defects in this gene are a cause of retinitis pigmentosa type 10 (RP10). Several transcript variants encoding different isoforms have been found for this gene.

[provided by RefSeq, Dec 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Drug metabolism - other enzymes, Metabolic pathways, Purine metabolism

# **Product images:**



15% SDS-PAGE (3ug)