

## Product datasheet for **AR09523PU-L**

### 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:	<u>MGSSHHHHHH SSSLVPRGSH</u> MADYLISGGT GYVPEDGLTA QQLFASADGL TYNDFLILPG FIDFIADEVD LTSALTRKIT LKTPLISSPM DTVTEADMAI AMALMGGIGF IHHNCTPEFQ ANEVRKVKKF EQGFITDPV LSPSHTVGDV LEAKMRHGFS GIPITETGTM GSKLVGIVTS RDIDFLAEKD HTLLSEVMT PRIELVWAPA GVTLKEANEI LQRSKKGKLP IVNDCDELVA IIARTDLKKN RDYPLASKDS QKQLLCGA AV GTREDDKYRL DLLTQAGVDV IVLDSSQGNS VYQIAMVHYI KQKYPHLQVI GGNVWTAQA KNLIDAGVDG LRVGMGCGSI CITQEVMACG RPQGTAVYKV AEYARRFGVP IADGGIQTV GHVVKALALG ASTVMMGSL AATTEAPGEY FSDGVRLKK YRGMGSLDAM EKSSSSQKRY FSEGDKVKIA QGVSGSIQDK GSIQKFV PYL IAGIQHGCQD IGARLSVLR 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:	<u>NP_000874</u>
Locus ID:	3614



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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:**