

IMPDH1 recombinant protein

IMPDH1, 1-514aa, Human, His tag, E Coli

CATALOG # AAA48641	HOST E Coli	APPLICATIONS SDS-Page
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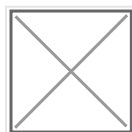
PRODUCT SYNONYMS

IMPDH1; 1-514aa; Human; His tag; E Coli; Inosine-5'-monophosphate dehydrogenase 1; IMPD; IMPD1; LCA11; RP10; Inosine-5'-monophosphate dehydrogenase 1 IMP dehydrogenase 1.; IMPDH1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 1mM DTT, 20% glycerol
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MADYLISGGT GYVPEDGLTA QQLFASADGL TYNDFLILPG FIDFIADEV LTSALTRKIT LKTPLISSPM DTVTEADMAI AMALMGGIGF IHHNCTPEFQ ANEVRKVKKF EQGFITDPVV LSPSHTVGDV LEAKMRHGFS GIPITETGTM GSKLVGIVTS RDIDFLAEKD HTLLSEVMT PRIELVVAPA GVTLKEANEI LQRSKKGKLP IVNDCDELVA IIARTDLKKN RDYPLASKDS QKQLLCGA AV GTREDDKYRL DLLTQAGVDV IVDSSQGNS VYQIAMVHYI KQKYPHLQVI GGNVVTAAQA KNLDAGVDG LRVGMGCGSI CITQEVMACG RPQGTAVYKV AEYARRFGVP IIADGGIQT V GHVVKALALG ASTVMMGSL L AATTEAPGEY FFSDGVRLKK YRGMGSLDAM EKSSSSQKRY FSEGDKVKIA QGVSGSIQDK GSIQKFVPYL IAGIQHGCQD IGARLSVLR SMMYSGELKF EKRTMSAQIE GGVHGLHSYE KRLY
Sequence Length	1-514
Applicable Applications for IMPDH1 recombinant protein	SDS-PAGE
Domain	1-514aa
Tag Information	His-tag
Preparation and Storage	Can be stored at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

3µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for IMPDH1 recombinant protein	Inosine-5'-monophosphate dehydrogenase 1, also known as IMPDH1 catalyzes the synthesis of xanthine monophosphate (XMP) from inosine-5'-monophosphate (IMP). Also, IMPDH1 is a ubiquitously expressed enzyme, functioning as a homotetramer, which catalyzed the rate-limiting step in de novo synthesis of guanine nucleotides. As such, it plays an important role in cyclic nucleoside metabolism within photoreceptors. Defects in the IMPDH1 gene are a cause of retinitis pigmentosa type 10. Recombinant human IMPDH1, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for IMPDH1 recombinant protein	Signal Transduction
References	Wang J., et al. (2008) Clin Pharmacol Ther. 83 (5):711-7.; Natsumeda Y., et al. (1990) J Biol Chem. 265 (9):5292-5.

NCBI AND UNIPROT INFORMATION

NCBI GI #	217035146
NCBI GeneID	3614
NCBI Accession #	NP_001136045
NCBI GenBank Nucleotide #	NM_001142573.1
UniProt Accession #	P20839; Q8N194; Q96NU2; A4D0Z6; A4D0Z7; A6NDW5; A6NNI6; B3KNP7; B3KVM8; B4DE09; C9JV30; J3KNX8
Molecular Weight	57.5 kDa (534aa), confirmed by MALDI-TOF
NCBI Official Full Name	inosine-5'-monophosphate dehydrogenase 1 isoform e
NCBI Official Synonym Full Names	inosine monophosphate dehydrogenase 1
NCBI Official Symbol	IMPDH1
NCBI Official Synonym Symbols	IMPD; RP10; IMPD1; LCA11; IMPDH-I; sWSS2608
NCBI Protein Information	inosine-5'-monophosphate dehydrogenase 1
UniProt Protein Name	Inosine-5'-monophosphate dehydrogenase 1
UniProt Gene Name	IMPDH1
UniProt Synonym Gene Names	IMP dehydrogenase 1; IMPD 1; IMPDH 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.