Recombinant Full Length Human IMPDH1 Protein, GST-tagged

Cat. No. IMPDH1-5865HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human IMPDH1 full-length ORF (NP_899066.1, 1 a.a. - 563 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	563 amino acids
Description	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
Molecular Mass	86.8 kDa
AA Sequence	MEGPLTPPPLQGGGAAAVPEPGARQHPGHETAAQRYSARLLQAGYEPESMADYLI SGGTGYVPEDGLTAQQLFASADGLTYNDFLILPGFIDFIADEVDLTSALTRKITLKTPLI SSPMDTVTEADMAIAMALMGGIGFIHHNCTPEFQANEVRKVKKFEQGFITDPVVLSP SHTVGDVLEAKMRHGFSGIPITETGTMGSKLVGIVTSRDIDFLAEKDHTTLLSEVMTP RIELVVAPAGVTLKEANEILQRSKKGKLPIVNDCDELVAIIARTDLKKNRDYPLASKDS QKQLLCGAAVGTREDDKYRLDLLTQAGVDVIVLDSSQGNSVYQIAMVHYIKQKYPHL QVIGGNVVTAAQAKNLIDAGVDGLRVGMGCGSICITQEVMACGRPQGTAVYKVAEY

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	ARRFGVPIIADGGIQTVGHVVKALALGASTVMMGSLLAATTEAPGEYFFSDGVRLKK YRGMGSLDAMEKSSSSQKRYFSEGDKVKIAQGVSGSIQDKGSIQKFVPYLIAGIQHG CQDIGARSLSVLRSMMYSGELKFEKRTMSAQIEGGVHGLHSYEKRLY
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	IMPDH1 IMP (inosine 5-monophosphate) dehydrogenase 1 [Homo sapiens]
Official Symbol	IMPDH1
Synonyms	IMPDH1; IMP (inosine 5-monophosphate) dehydrogenase 1; IMP (inosine monophosphate) dehydrogenase 1 , retinitis pigmentosa 10 (autosomal dominant) , RP10; inosine-5-monophosphate dehydrogenase 1; LCA11; sWSS2608; IMPD 1; IMPDH 1; IMPDH-I; IMP dehydrogenase 1; IMP (inosine monophosphate) dehydrogenase 1; IMPD; RP10; IMPD1; DKFZp781N0678;
Gene ID	3614
mRNA Refseq	NM_000883

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Protein Refseq	NP_000874
MIM	146690
UniProt ID	P20839

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