

# Recombinant Full Length Human IMPDH1 Protein, GST-tagged

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

## SPECIFICATION

<b>Product Overview</b>	Human IMPDH1 full-length ORF ( NP_899066.1, 1 a.a. - 563 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>Protein Length</b>	563 amino acids
<b>Description</b>	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]
<b>Molecular Mass</b>	86.8 kDa
<b>AA Sequence</b>	MEGPLTPPPLQGGGAAAVPEPGARQHPGHETAQAQRY SARLLQAGYEPESMADYLI SGGTGYVPEDGLTAQQLFASADGLTYNDFLILPGFIDFIADEVDLTSALTRKITLKTPLI SSPMDTVTEADMAIAMALMGGIGFIHHNCTPEFQANEVRKVKKFEQGFITDPVVLSP SHTVGDVLEAKMRHGFSGIPITETGTMGSKLVGIVTSRDIDFLAEKDHTLLSEVMTP RIELVVAPAGVTLKEANEILQRSKKGKLPVNDCELVAIARTDLKKNRDYPLASKDS KQQLLCGAAVGTREDDKYRLDLLTQAGVDVIVLDSSQGN SVYQIAMVHYIKQKYPHL QVIGGNVVTAQAQAKNLIDAGVDGLRVGMGCGSICITQEVMACGRPQGTAVYKVAEY

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ARRFGVPIIADGGIQTVGHVVKALALGASTVMMGSLLAATTEAPGEYFFSDGVRLKK  
 YRGMGSLDAMEKSSSSQKRYFSEGDKVKIAQGVSGSIQDKGSIQKFVPLYAGIQHG  
 CQDIGARSLSVLRSMYSGELKFEKRTMSAQIEGGVHGLHSYEKRLY

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

## GENE INFORMATION

<b>Gene Name</b>	IMPDH1 IMP (inosine 5-monophosphate) dehydrogenase 1 [ Homo sapiens ]
<b>Official Symbol</b>	IMPDH1
<b>Synonyms</b>	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;
<b>Gene ID</b>	3614
<b>mRNA Refseq</b>	NM_000883

Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA



**Protein Refseq** NP\_000874

**MIM** 146690

**UniProt ID** P20839

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA