
Product Data Sheet

Product Name: IMPDH1 Human

Cat. No.: GP21829

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 1.1.1.205; IMP (inosine monophosphate) dehydrogenase 1; LCA11; RP10; IMPDH 1; IMPD 1; IMPDH-I; SwSS2608; DKFZp781N0678.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MADYLISGGT GYVPEDGLTA QQLFASADGL TYNDFLILPG FIDFIADEVD LTSALTRKIT LKTPLISSPM DTVTEADMAI AMALMGGIGF IHHNCTPEFQ ANEVKVKKF EQGFITDPVV LPSHTVGDV LEAKMRHGFS GIPITETGTM GSKLVGIVTS RDIDFLAEKD HTLLSEVMT PRIELVVAPA GVTLKEANEI LQRSKKGLP IVNDCDELVA IIARTDLKKN RDYPLASKDS QKQLLCGAAV GTREDDKYRL DLLTQAGVDV IVLDSSQGNS VYQIAMVHYI KQKYPHLQVI GGNVVTAAQA KNLIDAGVDG LRVGMGCGSI CITQEVMACG RPQGTAVYKV AEYARRFGVP IIADGGIQT V GHVVKALALG ASTVMMGSL AATTEAPGEY FSDGVRLKK YRGMGSLDAM EKSSSSQKRY FSEGDKVKIA QGVSGSIQDK GSIQKFVYPYL IAGIQHGCQD IGARSLSVLR SMMYSGELKF EKRTMSAQIE GGVHGLHSYE KRLY.</p>		
Formulation	IMPDH1 Human solution containing 20mM Tris-HCl pH-8, 1mM DTT & 20% glycerol.		

Introduction

IMPDH1 is a rate limiting enzyme in the de novo synthesis of guanine nucleotides and consequently participates in the regulation of cell growth. IMPDH1 takes part in the development of malignancy and the growth progression of some tumors. IMPDH1 performs as a homotetramer to regulate cell growth. IMPDH1 catalyzes the synthesis of xanthine monophosphate (XMP) from inosine-5''-monophosphate (IMP). Defects in this gene are a cause of retinitis pigmentosa type 10 (RP10).

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

IMPDH1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 534 amino acids (1-514 a.a.) and having a molecular mass of 57.5 kDa. The IMPDH1 is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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