abcam

Product datasheet

Recombinant Human IMPDH1 protein ab97410

1 Image

Description

Product name	Recombinant Human IMPDH1 protein
Purity	> 95 % SDS-PAGE. ab97410 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	**P20839**
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	*MGSSHHHHHH SSGLVPRGSH* MADYLISGGT GYVPEDGLTA QQLFASADGL TYNDFLILPG FIDFIADEVD LTSALTRKIT LKTPLISSPM DTVTEADMAI AMALMGGIGF IHHNCTPEFQ ANEVRKVKKF EQGFITDPVV LSPSHTVGDV LEAKMRHGFS GIPITETGTM GSKLVGIVTS RDIDFLAEKD HTTLLSEVMT PRIELVVAPA GVTLKEANEI LQRSKKGKLP IVNDCDELVA IIARTDLKKN RDYPLASKDS QKQLLCGAAV GTREDDKYRL DLLTQAGVDV IVLDSSQGNS VYQIAMVHYI KQKYPHLQVI GGNVVTAAQA KNLIDAGVDG LRVGMGCGSI CITQEVMACG RPQGTAVYKV AEYARRFGVP IIADGGIQTV GHVVKALALG ASTVMMGSLL AATTEAPGEY FFSDGVRLKK YRGMGSLDAM EKSSSSQKRY FSEGDKVKIA QGVSGSIQDK GSIQKFVPYL IAGIQHGCQD IGARSLSVLR SMMYSGELKF EKRTMSAQIE GGVHGLHSYE KRLY
Predicted molecular weight	58 kDa including tags
Amino acids	1 to 514
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab97410** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF-TOF
Form	Liquid

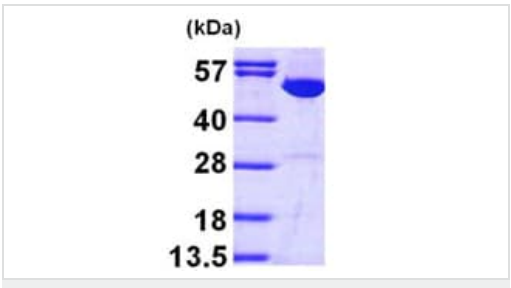
Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 8.00 Constituents: 0.0154% DTT, 0.316% Tris HCl, 20% Glycerol (glycerin, glycerine)

General Info

Function	Rate limiting enzyme in the de novo synthesis of guanine nucleotides and therefore is involved in the regulation of cell growth. It may also have a role in the development of malignancy and the growth progression of some tumors.
Tissue specificity	IMP type I is the main species in normal leukocytes and type II predominates over type I in the tumor.
Pathway	Purine metabolism; XMP biosynthesis via de novo pathway; XMP from IMP: step 1/1.
Involvement in disease	Defects in IMPDH1 are the cause of retinitis pigmentosa type 10 (RP10) [MIM:180105]. RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well. RP10 inheritance is autosomal dominant.
Sequence similarities	Belongs to the IMPDH/GMPR family. Contains 2 CBS domains.

Images



SDS-PAGE - Recombinant Human IMPDH1 protein (ab97410)

15% SDS-PAGE showing ab97410 at approximately 57.5kDa (3µg).

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