

Recombinant human ITPA protein

Catalog Number: ATGP0639

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-194aa

UniProt No.

Q9BY32

NCBI Accession No.

NP_258412

Alternative Names

Inosine triphosphate pyrophosphatase, C20orf37, dj794l6.3, HLC14-06-P, ITPase, My049, OK/SW-cl.9, Inosine triphosphate pyrophosphatase

PRODUCT SPECIFICATION

Molecular Weight

23.7 kDa (215aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

ITPA, also known as Inosine triphosphate pyrophosphatase, is an enzyme that catalyzes the pyrophosphohydrolysis of both ITP (inosine triphosphate) and dITP (deoxyinosine triphosphate) to IMP (inosine monophosphate) and diphosphate. IMP can be used as a substrate for purine nucleotide pathways. IMP can be phosphorylated to ITP, and ITPA can regulate the concentration of ITP in the cell by converting ITP back to IMP. Defects in ITPA result in ITPA deficiency which is thought to be inherited and is characterized by an over-

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accumulation of ITP in erythrocytes, leukocytes and fibroblasts. Recombinant human ITPA protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MMAASLVGKK IVFVTGNAKK LEEVVQILGD KFPCTLVAQK IDLPEYQGEP DEISIQKCQE
AVRQVQGPVL VEDTCLCFNA LGGLPGPIK WFLEKLKPEG LHQLLAGFED KSAYALCTFA LSTGDPSQPV RLFRGRTSGR
IVAPRGCQDF GWDPCFQPDG YEQTYAEMPK AEKNAVSHRF RALLELQEYF GSLAA

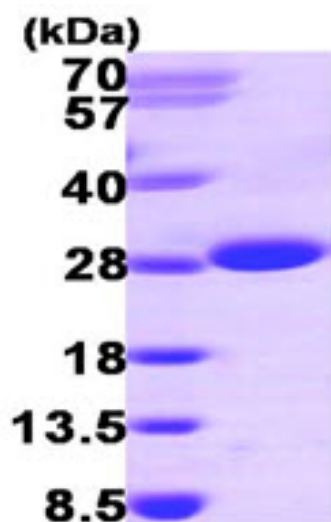
General References

Clawson GA., et al. (1991) Cell Growth Differ. 2(11):575-82.

Lin S.,et al. (2001) J Biol Chem.. 276(22):18695-701.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)