

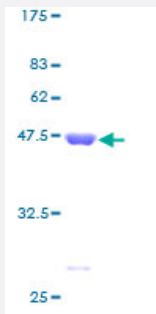
Full-Length

ITPA (Human) Recombinant Protein (P01)

Catalog # H00003704-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ITPA full-length ORF (AAH10138, 1 a.a. - 194 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAASLVGKKMFVTGNAKKLEEVVQILGDKFPCTLVAQKIDLPEYQGEPDEISIQKCQEAVRQVQG PVLVEDTCLCFNALGGLPGPYKWFLEKLKPEGLHQLLAGFEDKSAYALCTFALSTGDPSQPVRL FRGRTSGRMVAPRGCQDFGWDPFCQPDGYEQTYAEMPKAEKNAVSHRFRALLELQEYFGSLAA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	47.08
Interspecies Antigen Sequence	Mouse (90); Rat (92)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ITPA

Entrez GeneID [3704](#)

GeneBank Accession# [BC010138](#)

Protein Accession# [AAH10138](#)

Gene Name ITPA

Gene Alias C20orf37, HLC14-06-P, ITPase, dJ794I6.3

Gene Description inosine triphosphatase (nucleoside triphosphate pyrophosphatase)

Omim ID [147520](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene hydrolyzes inosine triphosphate and deoxyinosine triphosphate to the monophosphate nucleotide and diphosphate. The encoded protein, which is a member of the HAM1 NTPase protein family, is found in the cytoplasm and acts as a homodimer. Defects in the encoded protein can result in inosine triphosphate pyrophosphorylase deficiency. Two transcript variants encoding two different isoforms have been found for this gene. Also, at least two other transcript variants have been identified which are probably regulatory rather than protein-coding. [provided by RefSeq]

Other Designations My049 protein|OTTHUMP00000030094|inosine triphosphatase|inosine triphosphatase-A|inosine triphosphate pyrophosphatase|inosine triphosphate pyrophosphohydrolase|nucleoside triphosphate diphosphatase|putative oncogene protein HLC14-06-P

Publication Reference

- [Erythrocyte Inosine Triphosphatase Activity Is Decreased in HIV-Seropositive Individuals.](#)

Bierau J, Bakker JA, Schippers JA, Grashorn JA, Lindhout M, Lowe SH, Paulussen AD, Verbon A.

PLoS One 2012 Jan; 7(1):e30175.

Application: Enzyme, Human, Erythrocytes from HIV+ patients

Pathway

- [Drug metabolism - other enzymes](#)
- [Metabolic pathways](#)
- [Purine metabolism](#)
- [Pyrimidine metabolism](#)

Disease

- [Anemia](#)
- [Arthritis](#)
- [Colitis](#)
- [Crohn Disease](#)
- [Deficiency Diseases](#)
- [Disease Progression](#)
- [Gastrointestinal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis](#)
- [Hepatitis C](#)
- [Inflammatory Bowel Diseases](#)
- [Leukopenia](#)

- [Lupus Erythematosus](#)
- [Metabolism](#)
- [Neoplasms](#)
- [Neutropenia](#)
- [Pancreatitis](#)