

## ITPase Protein, Human, Recombinant (His)

## General Information

Synonyms:	Nucleoside-Triphosphate Diphosphatase;Nucleoside-Triphosphate Pyrophosphatase;Inosine Triphosphate Pyrophosphatase;Putative Oncog;ITPase;Non-Canonical Purine NTP Pyrophosphatase;Non-Standard Purine NTP Pyrophosphatase;NTPase;Inosine Triphosphatase
Protein Construction:	Ala2-Ala194
Species:	Human
Expression Host:	E. coli
Accession:	Q9BY32
Molecular Weight:	21 KDa (reducing condition)
AA Sequence:	Ala2-Ala194

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 5% Trehalose, 300 mM NaCl, 30% Glycerol, 0.05% Tween 80, pH8.0.

## Preparation and Storage

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

## Shipping:

Proteins are shipped with blue ice.

## Protein Background

Inosine Triphosphate Pyrophosphatase (ITPase) is a cytoplasmic enzyme that belongs to the HAM1 NTPase family. ITPase hydrolyzes the non-canonical purine nucleotides inosine triphosphate (ITP) and deoxyinosine triphosphate (dITP) to the monophosphate nucleotide (IMP) and diphosphate. The ITPase enzyme acts as a homodimer and does not distinguish between the deoxy- and ribose forms. ITPase probably excludes non-canonical purines from RNA and DNA precursor pools, thus preventing their incorporation into RNA and DNA and avoiding chromosomal lesions. Defects in ITPase is thought to be inherited and is characterized by an over-accumulation of ITP in erythrocytes, leukocytes and fibroblasts.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481