Product Name: Recombinant Human ITPase (C-6His)
Catalog #: PEH0951

Summary

Name	Inosine triphosphate pyrophosphatase/ITPA
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Inosine Triphosphate Pyrophosphatase is produced by our E.coli expression system and the target gene encoding Ala2-Ala194 is expressed with a 6His tag at the C-terminus.
Accession #	Q9BY32
Host	E.coli
Species	Human
Predicted Molecular Mass	22.5 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 5% Trehalose, 300mM NaCl, 30% Glycerol, 0.05% Tween 80, pH8.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image

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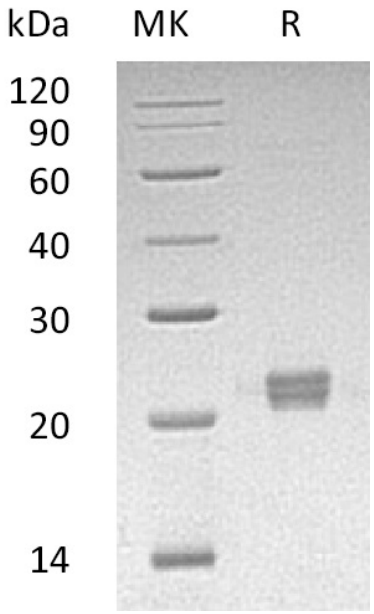

Alternative Names

Inosine Triphosphate Pyrophosphatase; ITPase; Inosine Triphosphatase; Non-Canonical Purine NTP Pyrophosphatase; Non-Standard Purine NTP Pyrophosphatase; Nucleoside-Triphosphate Diphosphatase; Nucleoside-Triphosphate Pyrophosphatase; NTPase; Putative Oncogene Protein hlc14-06-p; ITPA; C20orf37

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 erythocytes, leukocytes and fibroblasts.

Note

For Research Use Only , Not for Diagnostic Use.