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Datasheet for ABIN7318619 ITPA Protein (His tag)



Overview	
Quantity:	50 µg
Target:	ITPA
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ITPA protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Human ITPase/ITPA Protein (His Tag)
Sequence:	Ala2-Ala194
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g as determined by the LAL method.
Target Details	

Target:	ITPA
Alternative Name:	ITPase/ITPA (ITPA Products)
Background:	Background: Inosine Triphosphate Pyrophosphatase (ITPase) is a cytoplasmic enzyme that
	belongs to the HAM1 NTPase family. ITPase hydrolyzes the non-canonical purine nucleotides

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	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.
	Synonym: 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
Molecular Weight:	22.5 kDa
UniProt:	Q9BY32
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 μm filtered solution of 20 mM TrisHCl, pH 8.0.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.