
Product Data Sheet

Product Name: ITPA Human
 Cat. No.: GP21831
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 3.6.1.19; C20orf37; dj794I6.3; HLC14-06-P; ITPase; My049; OK/SW-cl.9; Inosine Triphosphatase; ITPA.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MMAASLVGKK IVFVTGNAKK LEEVVQILGD KFPCTLVAQK IDLPEYQGEP DEISIQKCQE AVRQVQGPVL VEDTCLCFNA LGGLPGPYIK WFLEKLPPEG LHQLLAGFED KSAYALCTFA LSTGDPSQPV RLFRGRTSGR IVAPRGCQDF GWDPCFQPDG YEQTYAEMPK AEKNAVSHRF RALLELQEYF GSLAA.		
Formulation	The ITPA solution (1mg/ml) contains 20mM Tris-HCl pH-8 & 10% glycerol.		

Introduction

ITPA enzyme catalyzes the pyrophosphohydrolysis of both ITP (inosine triphosphate) and dITP (deoxyinosine triphosphate) to IMP (inosine monophosphate) and diphosphate. IMP is exercised as a substrate for purine nucleotide pathways. IMP is phosphorylated to ITP, and ITPA mediates the concentration of ITP in the cell by changing ITP back to IMP. Defects in ITPA result in ITPA deficiency which is thought to be inherited and is characterized by an over-accumulation of ITP in erythrocytes, leukocytes and fibroblasts.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ITPA Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 215 amino acids (1-194 a.a.) and having a molecular mass of 23.7 kDa. The ITPA is fused to a 21 amino acid His-Tag at N-terminus and purified by proprietary

Caution: Product has not been fully validated for medical applications. For research use only.

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chromatographic techniques.

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