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32-8049: Recombinant Human Inosine Triphosphate Pyrophosphatase/ITPase (C-6His)

Gene : ITPA
Gene ID : 3704
Uniprot ID : Q9BY32

Description

Source: E.coli.
MW :22.5kD.
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. 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.

Product Info

Amount : 10 µg / 50 µg
Content : Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, pH 8.0.
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : MAASLVGKKIVFVTGNAKKLEEVVQILGDKFPCTLVAQKIDLPEYQGEPDEISIQKCQEAVRQVQGPVLVEDTCL CFNALGGLPGPYIKWFLEKLKPEGLHQLLAGFEDKSAYALCTFALSTGDPSQPVRLFRGRTSGRIVAPRGCQDF GWDPCFQPDGYEQTYAEMPKAEKNAVSHRFRALLELQEYFGSLAALEHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/Ã□Âµg (1 IEU/Ã□Âµg) as determined by LAL test.