

## ITPK1 Human

**Description:**ITPK1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 438 amino acids (1-414 a.a) and having a molecular mass of 48.1kDa. ITPK1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:PKPS-047

For research use only.

**Synonyms:**Inositol-tetrakisphosphate 1-kinase, Inositol 1,3,4-trisphosphate 5/6-kinase, Inositol-triphosphate 5/6-kinase, Ins(1,3,4)P(3) 5/6-kinase, ITPK1, ITRPK1.

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSHMQTFLK GKRVGWYWLSE  
KKIKKLNFAQ FAELCRKRGM EVVQLNLSRP IEEQGPLDVI IHKLTDVILE ADQNDSQSLE  
LVHRFQEYID AHPETIVLDP LPAIRTLDDR SKSYELIRKI EAYMEDDRIC SPPFMELTSL  
CGDDTMRLLE KNGLTFPFIC KTRVAHGNTS HEMAIVFNQE GLNAIQPPCV VQNFHNAV  
LYKVFVVGES YT

**Purity:**Greater than 95% as determined by SDS-PAGE.

### Formulation:

ITPK1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 10% glycerol and 1mM EDTA.

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Inositol-tetrakisphosphate 1-kinase (ITPK1) is a 414 amino acid monomer which is a member of the ITPK1 family and exists as 2 alternatively spliced isoforms. ITPK1 highest levels are found in the brain, followed by the heart, skeletal muscle, kidney, pancreas, liver, placenta and lung. ITPK1 is comprised of one ATP-grasp domain and has been shown to phosphorylate various inositol polyphosphates and modify TNF $\alpha$  induced apoptosis.

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