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# Recombinant human ITPK1 protein

Catalog Number: ATGP1655

### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-414aa

#### **UniProt No.**

013572

#### **NCBI Accession No.**

NP 055031.2

#### **Alternative Names**

Inositol-tetrakisphosphate 1-kinase, ITRPK1

# PRODUCT SPECIFICATION

#### **Molecular Weight**

48.1 kDa (438aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol,1mM EDTA

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

Inositol-tetrakisphosphate 1-kinase, also known as ITPK1, is a 414 amino acid monomer that belongs to the ITPK1 family and exists as two alternatively spliced isoforms. ITPK1 is found at highest levels in brain, followed by heart, skeletal muscle, kidney, pancreas, liver, placenta and lung. ITPK1 contains one ATP-grasp domain and has been found to phosphorylate various inositol polyphosphates and modify TNFalpha induced apoptosis. Recombinant human ITPK1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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# **Amino acid Sequence**

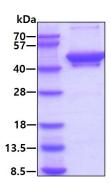
<MGSSHHHHHH SSGLVPRGSH MGSH>MQTFLK GKRVGYWLSE KKIKKLNFQA FAELCRKRGM EVVQLNLSRP IEEQGPLDVI IHKLTDVILE ADQNDSQSLE LVHRFQEYID AHPETIVLDP LPAIRTLLDR SKSYELIRKI EAYMEDDRIC SPPFMELTSL CGDDTMRLLE KNGLTFPFIC KTRVAHGTNS HEMAIVFNQE GLNAIQPPCV VQNFINHNAV LYKVFVVGES YTVVQRPSLK NFSAGTSDRE SIFFNSHNVS KPESSSVLTE LDKIEGVFER PSDEVIRELS RALRQALGVS LFGIDIIINN QTGQHAVIDI NAFPGYEGVS EFFTDLLNHI ATVLQGQSTA MAATGDVALL RHSKLLAEPA GGLVGERTCS ASPGCCGSMM GQDAPWKAEA DAGGTAKLPH QRLGCNAGVS PSFQQHCVAS LATKASSQ

#### **General References**

Sun Y., et al. (2002) J Biol Chem. 277: 45759-45764 Chamberlain P P., et al. (2007) J Biol Chem. 282: 28117-28125.

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

