

**ITPK1, 1-414aa Human, His tag, E.coli**

**Cat.NO.: TP02700**

3th Edition

**Synonyms:**Inositol-tetrakisphosphate 1-kinase, ITRPK1.

**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 TNF $\alpha$  induced apoptosis.

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

**Molecular Weight:**48.1 kDa (438aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMQTFLKGRVGYWLSEKKIKKLNQAFQAEELCRKRGMEVVQLNLSRPIEEQ  
GPLDVIIHKLTDVILEADQNDSSQLELVHRFQYIDAHPETIVLDPLPAIRTLDRSKSYELIRKIEAYMEDDRICSPPFM  
ELTSLCGDDTMRLLKNGLTFFPFICKTRVAHGTSHEMAIVFNQEGLNAIQPPCVVQNFHNAVLYKVFVVGESYT  
VVQRPSLKNFSAGTSDRESIFFNSHNVSKEPSSSVLTELKIEGVFERPSDEVIRELSRALRQALGVSLFGIDIINNQ  
TGQHAVIDINAFPGYEGVSEFFTDLLNHIATVLQGGSTAMAATGDVALLRHSKLLAEPAGGLVGERTCSASPGCCG  
SMMGQDAPWKAADAGGTAKLPHQRLGCNAGVSPSFQQHCVASLATKASSQ

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml

**Endotoxin Level:**<1.0 EU per 1  $\mu$ g of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.