

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 α 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:

MGSSHHHHHHSSGLVPRGSHMGSHMQTFLKGKRVGYWLSEKKIKKLNFAQFAELCRKRGMEVVQLNLSRPIEEQ
GPLDVIIHKLTDVILEADQNDQSLELVHRFQEYIDAHPETIVLDPLPAIRTLTDRSKSYELIRKIEAYMEDDRICSPPFM
ELTSLCGDDTMRLLKNGLTFFICKTRVAHGTSHEMAIVFNQEGLNAIQPPCVVQNFHNHNAVLYKVFFVVGESYT
VVQRPSLKNFSAGTSDRESIFFNSHNVSKESSSVLTLDKIEGVFERPSDEVIRELSRALRQALGVSLFGIDIINNQ
TGQHAVIDINAFPGYEGVSEFFTDLLNHIATVLQGGSTAMAATGDVALLRHSKLLAEPAGGLVGERTCSASPGCCG
SMMGQDAPWKAADAGGTAKLPHQRLGCNAGVSPSFQQHCVASLATKASSQ

Purity:> 95% by HPLC

Concentration:1 mg/ml

Endotoxin Level:<1.0 EU per 1 μ 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.