
Product Data Sheet

Product Name: ITPK1 Human
 Cat. No.: GP22535
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMQTFLK GKRVGWYWLSE KKIKKLNQFA FAELCRKRG M EVVQLNLSRP IEEQGPLDVI IHKLTDVILE ADQNDSQSLE LVHRFQEYID AHPETIVLDP LPAIRTLDDR SKSYELIRKI EAYMEDDRIC SPPFMELTSL CGDDTMRLLE KNGLTFPFIC KTRVAHGTNS HEMAIVFNQE GLNAIQPPCV VQNFHNAV LYKVFVVGES YTVVQRPSLK NFSAGTSDRE SIFFNSHNVS KPESSSVLTE LDKIEGVFER PSDEVIRELS RALRQALGVS LFGIDIINN QTGQHAVIDI NAFPGYEGVS EFFTDLNHI ATVLQGQSTA MAATGDVALL RSKLLAEP A GGLVGERTCS ASPGCCGSM GQDAPWKAEA DAGGTAKLPH QRLGCNAGVS PSFQQHCVAS LKASSQ.		
Formulation	ITPK1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 10% glycerol and 1mM EDTA.		

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 α induced apoptosis.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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