

Recombinant human ITPK1 protein

Catalog Number: ATGP1655

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-414aa

UniProt No.

Q13572

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

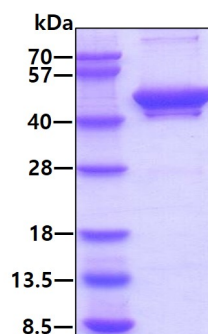
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SPPFMELTSL CGDDTMRLLE KNGLTFPFIC KTRVAHGNTS HEMAIVFNQE GLNAIQPPCV VQNFHNAV LYKVFVVGES
YTVVQRPSLK NFSAGTSDRE SIFFNSHNVS KPSSSVLVE LDKIEGVFER PSDEVIRELS RALRQALGVS LFGIDIIINN
QTGQHAVIDI NAFPGYEGVS EFFDILLNI ATVLQGQSTA MAATGDVALL RSKLLAEPV GGLVGERTCS ASPGCCGSMV
GQDAPWKAEE DAGGTAKLPH QRLGCNAGVS PSFQQHCVAS LATAKSSQ

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



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