

Recombinant human TPK1 protein

Catalog Number: ATGP1415

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-243aa

UniProt No.

Q9H3S4

NCBI Accession No.

NP_071890

Alternative Names

Thiamin pyrophosphokinase 1, HTPK1, PP20

PRODUCT SPECIFICATION

Molecular Weight

29.8 kDa (267aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT

Purity

> 90% 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

TPK1, also known as thiamin pyrophosphokinase 1, catalyzes the phosphorylation of thiamine to thiamine pyrophosphate. This protein can also catalyze the phosphorylation of pyrithiamine to pyrithiamine pyrophosphate. Recombinant human TPK1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSMEHAFT PLEPLLSTGN LKYCLVILNQ PLDNYFRHLW NKALLRACAD GGANRLYDIT

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EGERESFLPE FINGDFDSIR PEVREYYATK GCELISTPDQ DHTDFTKCLK MLQKKIEEKD LKVDVIVTLG GLAGRFDQIM
ASVNTLFQAT HITPFPIII QEESLIYLLQ PGKHRLHVDT GMEGDWCGLI PVGQPCMQVT TTGLKWNLTN DVLAFGTLVS
TSNTYDGSV VTVETDHPLL WTMAIKS

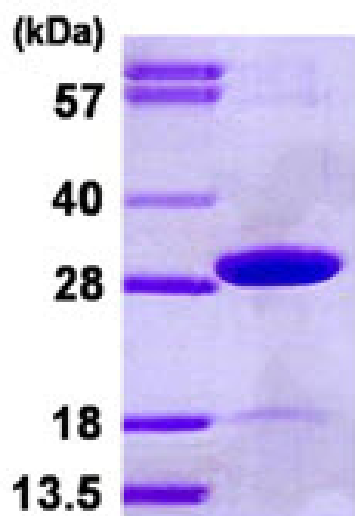
General References

Nosaka K., et al. (2001) *Biochim. Biophys. Acta.* 1517:293-297

Zhao R., et al. (2004) *Biochim. Biophys. Acta.* 1517:320-322

DATA

SDS-PAGE



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

15% SDS-PAGE (3 μ g)