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 SSGLVPRGSH MGSH>MEHAFT PLEPLLSTGN LKYCLVILNQ PLDNYFRHLW NKALLRACAD

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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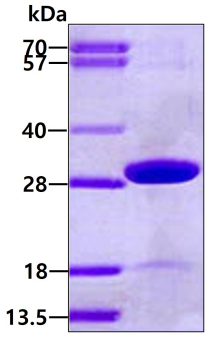
GGANRLYDIT EGERESFLPE FINGDFDSIR PEVREYYATK GCELISTPDQ DHTDFTKCLK MLQKKIEEKD LKVDVIVTLG GLAGRFDQIM ASVNTLFQAT HITPFPIIII QEESLIYLLQ PGKHRLHVDT GMEGDWCGLI PVGQPCMQVT TTGLKWNLTN DVLAFGTLVS TSNTYDGSGV VTVETDHPLL WTMAIKS

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



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