

Recombinant Human Thiamin Pyrophosphokinase 1, His-tagged

Cat. No. TPK1-1937H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanTPK1 protein,fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography.
Species	Human
Description	TPK1, also known as thiamin pyrophosphokinase 1, catalyzes thephosphorylation of thiamine to thiamine pyrophosphate. This protein can alsocatalyze the phosphorylation of pyriethiamine to pyriethiamine pyrophosphate.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20%glycerol, 1mM DTT.
Molecular Weight	29.8 kDa (267aa)confirmed by MALDI-TOF.
Purity	> 90%by SDS - PAGE
Concentration	1 mg/ml (determinedby Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSMEHAFT PLEPLLSTGN LKYCLVILNQ PLDNYFRHLW NKALLRACADGGANRLYDIT EGERESFLPE FINGDFDSIR PEVREYYATK GCELISTPDQ DHTDFTKCLK MLQKKIEEKDLKVDVITLG GLAGRFDQIM ASVNTLFQAT HITPFPIII QEESLIYLLQ PGKHLRHVD T GMEGDWCGLIPVGQPCMQVT TTGLKWNLN DVLAFGTLVS TSNTYDGSGV VTVETDHPLL WTMAIKS

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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.
Pathways	Metabolic pathways; Metabolism; Metabolism of vitamins and cofactors; Metabolism of water-soluble vitamins and cofactors; Thiamine metabolism; Vitamin B1 (thiamin) metabolism
GENE INFORMATION	
Gene Name	TPK1 thiamin pyrophosphokinase 1 [Homo sapiens]
Official Symbol	TPK1
Synonyms	TPK1; thiamin pyrophosphokinase 1; PP20; HTPK1; thiamin pyrophosphokinase 1; thiamine kinase; placental protein 20; thiamine diphosphokinase; Putative uncharacterized protein DKFZp781C0719; DKFZp781C0719
Gene ID	27010
mRNA Refseq	NM_001042482
Protein Refseq	NP_001035947
MIM	606370
UniProt ID	Q68DW6
Chromosome Location	7q34-q35
Function	ATP binding; kinase activity; nucleotide binding; thiamine diphosphokinase activity;

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