

Product datasheet for **AR50240PU-S**

Thiamine pyrophosphokinase 1 (TPK1) (1-243, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Thiamine pyrophosphokinase 1 (TPK1) (1-243, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMEHAFT PLEPLLSTGN LKYCLVILNQ PLDNYFRHLW NKALLRACAD GGANRLYDIT EGERESFLPE FINGDFDSIR PEVREYYATK GCELISTPDQ DHTDFTKCLK MLQKKIEEKD LKVDVIVTLG GLAGRFDQIM ASVNTLFQAT HITPFPIIII QEESLIYLLQ PGKHLRHVDT GMEGDWCGLI PVGQPCMQVT TTGLKWNLTN DVLAFTGLVS TSNTYDGSV VTVETDHPLL WTMAIKS
Tag:	His-tag
Predicted MW:	29.8 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1 mM DTT
Preparation:	Liquid purified protein
Protein Description:	Recombinant human TPK1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001035947
Locus ID:	27010
UniProt ID:	Q9H3S4 , F5GZG6
Cytogenetics:	7q35
Synonyms:	HTPK1; PP20; THMD5



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Summary:	The protein encoded by this gene functions as a homodimer and catalyzes the conversion of thiamine to thiamine pyrophosphate, a cofactor for some enzymes of the glycolytic and energy production pathways. Defects in this gene are a cause of thiamine metabolism dysfunction syndrome-5. [provided by RefSeq, Apr 2017]
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Thiamine metabolism