

Product datasheet for **AR50240PU-N**

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

Product data:

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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Thiamine pyrophosphokinase 1 (TPK1) (1-243, His-tag) human recombinant protein, 0.5 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 HITPFPIII QEESLIYLLQ PGKHLRHVDT GMEGDWCGLI PVGQPCMQVT TTGLKWNLTN DVLAFTGLVS TSNTYDGSQV 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 |
| 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