

## Product datasheet for **TP309721L**

### TPK1 (NM\_022445) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human thiamin pyrophosphokinase 1 (TPK1), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209721 protein sequence Red=Cloning site Green=Tags(s)

MEHAFTPLEPLLSTGNLKYCLVILNQPLDNYFRHLWNKALLRACADGGANRLYDITEGERESFLPEFING  
DFDSIRPEVREYYATKGCELISTPDQDHTDFTKCLKMLQKKIEEKDLKVDVIVTLGGLAGRFDQIMASVN  
TLFQATHITPFPIIIQEEESLIYLLQPGKHLHVDVTGMEGDWCGLIPVGQPCSQVTTTGLKWNLNDVLA  
FGTLVSTSNYDGSVVTVETDHPDLLWTMAIKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	27.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_071890</a>
Locus ID:	27010



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UniProt ID: [Q9H3S4](#), [A0A090N8Y0](#)

RefSeq Size: 2449

Cytogenetics: 7q35

RefSeq ORF: 729

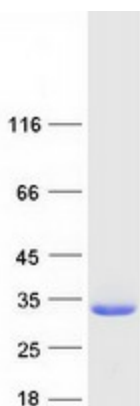
Synonyms: HTPK1; PP20; THMD5

**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

### Product images:



Coomassie blue staining of purified TPK1 protein (Cat# [TP309721]). The protein was produced from HEK293T cells transfected with TPK1 cDNA clone (Cat# [RC209721]) using MegaTran 2.0 (Cat# [TT210002]).