

## Product datasheet for TP321519L

### PANK1 (NM\_138316) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human pantothenate kinase 1 (PANK1), transcript variant gamma, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC221519 representing NM_138316 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MKLLNGKKQTFPWFGMDIGGTLVKKLVYFEPKDITAEQEEVENLKSIRKYLTSNTAYGKTGIRDVHLEL KNLTMCGRKGNLHFIRFPSCAMHRFIQMGSEKNFSSLHTTLCATGGGAFKFEEDFRMIADLQLHKLDEL CLIQGLLYVDSVGFNGKPECYFENPTNPELCQKKPYCLDNPYPMLLVNMGSGVSILAVYSKDNYKRVTG TSFGNMMSKEKRDSISKEDLARATLVTTITNNIGSIARMCALNENIDRVVFGNFLRINMVSMKLLAYAMD FWSKGQLKALFLEHEGYFGAVGALLELFKMTDDK
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	35.4 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_612189</a>
Locus ID:	53354



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UniProt ID: [Q8TE04](#)

RefSeq Size: 2525

Cytogenetics: 10q23.31

RefSeq ORF: 942

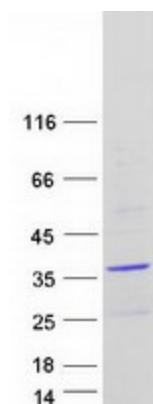
Synonyms: PANK

**Summary:** This gene encodes a member of the pantothenate kinase family. Pantothenate kinases are key regulatory enzymes in the biosynthesis of coenzyme A (CoA). The encoded protein catalyzes the first and rate-limiting enzymatic reaction in CoA biosynthesis and is regulated by CoA through feedback inhibition. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. This gene and an intronic miRNA on the same strand are co-regulated by the tumor suppressor p53 (see PMID 20833636). [provided by RefSeq, Apr 2011]

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Pantothenate and CoA biosynthesis

### Product images:



Coomassie blue staining of purified PANK1 protein (Cat# [TP321519]). The protein was produced from HEK293T cells transfected with PANK1 cDNA clone (Cat# [RC221519]) using MegaTran 2.0 (Cat# [TT210002]).