

# Recombinant Human TPK1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** TPK1-5075H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	TPK1 MS Standard C13 and N15-labeled recombinant protein (NP_071890) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Molecular Mass</b>	27.2 kDa
<b>AA Sequence</b>	MEHAFTPLEPLLSTGNLKYCLVILNQPLDNYFRHLWLNKALLRACADGGANRLYDITE GERESFLPEFINGDFDSIRPEVREYYATKGCELISTPDQDHTDFTKCLKMLQKKIEEK DLKVDVIVTLGGLAGRFDQIMASVNTLFQATHITPFPIIIQEE SLIYLLQPGKHLRHVDT GMEGDWCGLIPVQGQPCSQVTTTGLKWNLNDVLAFTLVSTSN TYDGGSGVVTVET DHPLLWTMAIKSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.

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<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
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<b>Concentration</b>	50 µg/mL as determined by BCA
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<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
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## GENE INFORMATION

<b>Gene Name</b>	TPK1 thiamin pyrophosphokinase 1 [ Homo sapiens (human) ]
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<b>Official Symbol</b>	TPK1
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<b>Synonyms</b>	TPK1; thiamin pyrophosphokinase 1; HTPK1; placental protein 20; PP20; thiamine diphosphokinase; thiamine kinase; thiamine pyrophosphokinase 1; THMD5;
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<b>Gene ID</b>	27010
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<b>mRNA Refseq</b>	NM_022445
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<b>Protein Refseq</b>	NP_071890
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<b>MIM</b>	606370
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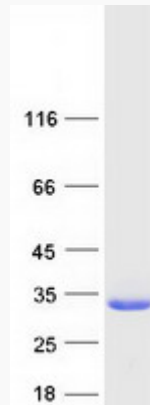
<b>UniProt ID</b>	Q9H3S4
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**SDS-PAGE**



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