

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

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

SPECIFICATION

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

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 45-1 Ramsey Road, Shirley, NY 11967, USA

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

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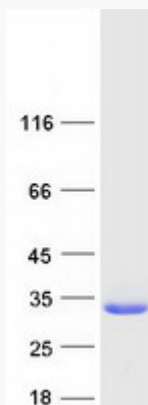
MIM	606370
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UniProt ID	Q9H3S4
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SDS-PAGE

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