

Recombinant Full Length Human TPK1 Protein, C-Flag-tagged

Cat. No. TPK1-1112HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TPK1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	27.1 kDa
AA Sequence	MEHAFTPLEPLLSTGNLKYCLVILNQPLDNYFRHLWNKALLRACADGGANRLYDITE GERESFLPEFING DFDSIRPEVREYYATKGCELISTPDQDHTDFTKCLKMLQKKIEEK DLKVDVIVTLGGLAGRFDQIMASVN TLFQATHITPFPIIIQEESLIYLLQPGKHRHLVD TGMEGDWCGLIPVGQPCSQVTTTGLKWNLTNDVLA FGTLVSTSN TYD GSGVTVETDHP LLWTMAIKSTRTRPLEQKLISEEDLAANDILDYK DDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways, Thiamine metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	TPK1 thiamin pyrophosphokinase 1 [Homo sapiens (human)]
Official Symbol	TPK1
Synonyms	PP20; HTPK1; THMD5
Gene ID	27010
mRNA Refseq	NM_022445.4
Protein Refseq	NP_071890.2
MIM	606370

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UniProt ID

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