

Recombinant Human PLK3, His-tagged

Cat. No. PLK3-31032TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 58-339 of Human PLK3, with N terminal His tag.
Species	Human
ProteinLength	58-339 a.a.
Description	Cytokine-inducible kinase is a putative serine/threonine kinase.CNK contains both a catalytic domain and a putative regulatory domain.It may play a role in regulation of cell cycle progression and tumorigenesis.
Conjugation	HIS
Tissue specificity	Transcripts are highly detected in placenta, lung, followed by skeletal muscle, heart, pancreas, ovaries and kidney and weakly detected in liver and brain. May have a short half-live. In cells of hematopoietic origin, strongly and exclusively detected in
Biological activity	Activity: 500 U/mg. One unit is defined as the amount of enzyme that willphosphorylate 1 nmol of casein substrate per minute at pH 7.4 and 30C. Assay buffer: 50 mM HEPES, pH 7.4, 3 mM MgCl ₂ , 3 mM MnCl ₂ , 1 mM DTT, 3 uM Na-orthovanadate, 0.5 mM ATP.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM

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	Tris HCl, 100mM Sodium chloride, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	SGR TYLKGRLLGK GGFARCYEAT DTETGSAYAV KVIPQSRVAK PHQREKILNE IELHRDLQHRHIVRFSHHFE DADNIYIFLE LCSRKSLAHI WKARHTLLEP EVRYYLRLQIL SGLKYLHQRGILHRDLKLG N FFITENMELK VGDFGLAARL EPPEQRKKT I CGTPNYVAPE VLLRQGHGPEADVWSLGCVM YTLLCGSPPF ETADLKETYR CIKQVHYTLP ASLSLPARQL LAAILRASPRDRPSIDQILR H DFFTKGYTP DRLPISSCVT VPDLTTPNP
Sequence Similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. CDC5/Polo subfamily.Contains 2 POLO box domains.Contains 1 protein kinase domain.
GENE INFORMATION	
Gene Name	PLK3 polo-like kinase 3 [Homo sapiens]
Official Symbol	PLK3
Synonyms	PLK3; polo-like kinase 3; CNK, cytokine inducible kinase , polo like kinase 3 (Drosophila); serine/threonine-protein kinase PLK3; FNK; PRK;
Gene ID	1263
mRNA Refseq	NM_004073
Protein Refseq	NP_004064
MIM	602913

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Uniprot ID	Q9H4B4
Chromosome Location	1p34.1
Pathway	Direct p53 effectors, organism-specific biosystem; PLK3 signaling events, organism-specific biosystem; Polo-like kinase signaling events in the cell cycle, organism-specific biosystem; Tuberculosis, organism-specific biosystem; Tuberculosis, conserved biosystem;
Function	ATP binding; nucleotide binding; p53 binding; protein binding; protein serine/threonine kinase activity;

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