

Recombinant Human Polo-like Kinase 3 (Drosophila), His-tagged

Cat. No. PLK3-566H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Plk3 (a.a. 58-339) with N-terminal His tag expressed in <i>aBaculovirus infected Sf9 cell</i> expression system. MW=36.7 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	58-339 a.a.
Description	Polo-like kinase 3 (Drosophila), also known as PLK3, is an enzyme which in humans is encoded by the PLK3 gene. 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. PLK3 has been shown to interact with CDC25C, CHEK2 and P53.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Specific Activity	500 U/mg. One unit is defined as the amount of enzyme that will phosphorylate 1 nmol of casein substrate per minute at pH 7.4 and 30°C. 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.
Purity	>80% by SDS-PAGE.

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Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 50% glycerol, and 3 mM DTT.
Stability	>6 months at -80°C.
GENE INFORMATION	
Gene Name	PLK3 polo-like kinase 3 (Drosophila) [Homo sapiens]
Synonyms	polo-like kinase 3 (Drosophila); CNK; FNK; PRK; PLK3; serine/threonine-protein kinase PLK3; PLK-3; FGF-inducible kinase; cytokine-inducible kinase; proliferation-related kinase; cytokine-inducible serine/threonine-protein kinase; Polo-like kinase 3; Proliferation-related kinase; Cytokine-inducible serine/threonine-protein kinase; EC 2.7.11.21
Gene ID	1263
mRNA Refseq	NM_004073.2
Protein Refseq	NP_004064.2
MIM	602913
UniProt ID	Q9H4B4
Chromosome Location	1p34.1
Function	ATP binding; nucleotide binding; polo kinase kinase activity; protein binding; protein serine/threonine kinase activity; transferase activity

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