

Active Recombinant Human Polo-like Kinase 1 (Drosophila)

Cat. No. PLK1-189H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Insect Cells
Description	The human polo-like kinase (PLK) gene encodes a 603- amino acid polypeptide. By Northern blot analysis, they showed PLK1 was not expressed in any adult human tissues except placenta. PLK1 localizes to the mitotic spindle, suggesting that it is involved in regulating mitotic spindle function. It has been observed that PLK1 transcripts are present at high levels in tumors of various origins and may be involved in the promotion or progression of cancers. It has been proposed as a diagnostic marker for several tumors. Data supports the notion that disruption of PLK1 function could be an important application in cancer therapy. The PLK1 was expressed in Baculovirus system and purified by an affinity column in combination with FPLC chromatography. The purified recombinant protein is greater than 95% homogeneous and contains no detectable protease, DNase and RNase activity. MW = 66 kDa.
Form	Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 100 mM KCl, 0.2 mM EDTA, 1 mM DTT and 20% glycerol.
Purity	> 95% by SDS-PAGE.
Activity	1ug of PLK1 is sufficient to phosphorylate 1 ug of heat-inactivated nuclear or cytoplasmic extract at 30°C for 30 min.

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Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months store at -80°C. Avoid freeze / thaw cycles.
GENE INFORMATION	
Gene Name	PLK1 polo-like kinase 1 (Drosophila) [Homo sapiens]
Synonyms	PLK1; polo-like kinase 1 (Drosophila); PLK; STPK13; polo-like kinase 1; polo like kinase; polo (Drosophila)-like kinase; cell cycle regulated protein kinase; EC 2.7.11.21; PLK-1; Polo-like kinase 1; Serine/threonine-protein kinase 13; polo like kinase; polo-like kinase 1 (Drosophila); Serine/threonine-protein kinase PLK1
Gene ID	5347
mRNA Refseq	NM_005030
Protein Refseq	NP_005021
MIM	602098
UniProt ID	P53350
Chromosome Location	16p
Pathway	Cell cycle; Progesterone-mediated oocyte maturation
Function	ATP binding; nucleotide binding; polo kinase kinase activity; protein binding; protein serine/threonine kinase activity; transferase activity

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