

Recombinant Human PLK2, His-tagged

Cat. No. PLK2-31031TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-685 of Human PLK2, with His tag at N terminal.
Species	Human
ProteinLength	1-685 a.a.
Description	The protein encoded by this gene is a member of the polo family of serine/threonine protein kinases that have a role in normal cell division. This gene is most abundantly expressed in testis, spleen and fetal tissues, and its expression is inducible by serum, suggesting that it may also play an important role in cells undergoing rapid cell division. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Biological activity	100 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 30C. Assay buffer: 50 mM HEPES, pH 7.4, 3 mM MgCl ₂ , 3 mM MnCl ₂ , 1 mM DTT, 3 uM Na-orthovanadate, 0.1 mM ATP.
Form	Liquid
Storage buffer	Preservative: None Constituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8.0

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	<p>MELLRTITYQ PAASTKMCEQ ALGKGC GADS KKKRPPQPPE ESQPPQSQAQ VPPAAPHHHHHSHSGPEIS RIIVDPTTGK RYCRGKVLGK GGFACYEMT DLTNNKVYAA KIIPHSRVAKPHQREKIDKE IELHRILHHK HVVQFYHYFE DKENIYILLE YCSRRSMAHI LKARKVLTEPEVRYLRQIV SGLKYLHEQE ILHRDLKLG N FINEAMELK VGDFGLAARL EPLEHRRRTICGTPNYLSPE VLNKQGHGCE SDIWALGCVM YTMLLGRPPF ETTNLKETYR</p> <p>CIREARYTMPSSLLAPAKHL IASMLSKNPE DRPSLDDIIR H DFFLQGFPT DRLSSSCCHT VPDFHLSSPAKNFFKAAAA LFGGKDKAR YIDTHNRVSK EDEDIYKLRH DLKKT SITQQ PSKHRTDEELQPPTTTVARS GTPAVENKQQ IGDAIRMIVR GTLGSCSSSS ECLEDSTMGS VADTVARVLRG CLENMPEAD CIPKEQLSTS FQWVTKWVDY SNKYGFGYQL SDHTVGVLFN NGAHMSLLPDKKTVHYAEL GQCSVFPATD APEQFISQVT VLKYFSHYME ENLMDGGDLP SVTDIRRPRLYLLQWLKSDK ALMMLFNDGT FQVNFYHDHT KIIICSQNEE YLLTYINEDR ISTTFRLLTLLMSGCSSELK NRMEYALNML LQRCN</p>
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.
Full Length	Full L.
GENE INFORMATION	
Gene Name	PLK2 polo-like kinase 2 [Homo sapiens]
Official Symbol	PLK2
Synonyms	PLK2; polo-like kinase 2; polo like kinase 2 (Drosophila); serine/threonine-protein kinase PLK2; serum inducible kinase; SNK;

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Gene ID	10769
mRNA Refseq	NM_001252226
Protein Refseq	NP_001239155
MIM	607023
Uniprot ID	Q9NYY3
Chromosome Location	5q12.1-q13.2
Pathway	PLK2 and PLK4 events, organism-specific biosystem; Polo-like kinase signaling events in the cell cycle, organism-specific biosystem;
Function	ATP binding; nucleotide binding; protein serine/threonine kinase activity; signal transducer activity;

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