

# Recombinant Human 3-Phosphoinositide Dependent Protein Kinase-1, His-tagged

Cat. No. PDPK1-1891H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant humanPDPK1 was expressed in insect cells. Its molecular weight is 66900 Dalton.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	<p>PDPK1 is aserine/threonine protein kinase localized to the plasma membrane. It plays avital role in insulin-induced glycogen synthesis, PKC activation, andactivation of the AGC subfamily of protein kinases. No special measures weretaken to activate this kinase. PDPK1 is a master kinase, which is crucial forthe activation of AKT/PKB and many other AGC kinases including PKC, S6K, SGK.An important role for PDPK1 is in the signalling pathways activated byseveral growth factors and hormones including insulin signalling.</p>
<b>Form</b>	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.
<b>Molecular Weight</b>	66.9 kDa
<b>Storage</b>	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
<b>OfficialSymbol</b>	PDPK1

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## GENE INFORMATION

<b>Gene Name</b>	PDPK1 3-phosphoinositide dependent proteinkinase-1 [ Homo sapiens ]
<b>Synonyms</b>	PDPK1; 3-phosphoinositidedependent protein kinase-1; 3-phosphoinositide-dependent protein kinase 1;PDK1; PRO0461; MGC20087; MGC35290; PkB kinase; hPDK1; EC 2.7.11.1
<b>Gene ID</b>	5170
<b>mRNA Refseq</b>	NM_002613
<b>Protein Refseq</b>	NP_002604
<b>MIM</b>	605213
<b>UniProt ID</b>	O15530
<b>Chromosome Location</b>	16p13.3
<b>Pathway</b>	Activation of NMDA receptorupon glutamate binding and postsynaptic events; Activation of PKB; AdaptiveImmune System; Aldosterone-regulated sodium reabsorption; B Cell ReceptorSignaling Pathway; BCR signaling pathway; CD28 co-stimulation; CD28 dependentPI3K/Akt signaling; Class I PI3K signaling events; Costimulation by the CD28family; Focal adhesion; Hemostasis; IGF1 pathway; IRS-mediated Signaling;Insulin Pathway
<b>Function</b>	3-phosphoinositide-dependentprotein kinase activity; ATP binding; kinase activity; nucleotide binding;protein binding; protein serine/threonine kinase activity
<b>PDB rendering</b>	

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