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

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

SPECIFICATION

Product Overview	Recombinant humanPDPK1 was expressed in insect cells. Its molecular weight is 66900 Dalton.
Species	Human
Source	Insect Cells
Description	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.
Form	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.
Molecular Weight	66.9 kDa
Storage	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	PDPK1

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	PDPK1 3-phosphoinositide dependent proteinkinase-1 [Homo sapiens]
Synonyms	PDPK1; 3-phosphoinositidedependent protein kinase-1; 3-phosphoinositide-dependent protein kinase 1;PDK1; PRO0461; MGC20087; MGC35290; PkB kinase; hPDK1; EC 2.7.11.1
Gene ID	5170
mRNA Refseq	NM_002613
Protein Refseq	NP_002604
MIM	605213
UniProt ID	O15530
Chromosome Location	16p13.3
Pathway	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
Function	3-phosphoinositide-dependentprotein kinase activity; ATP binding; kinase activity; nucleotide binding;protein binding; protein serine/threonine kinase activity
PDB rendering	

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