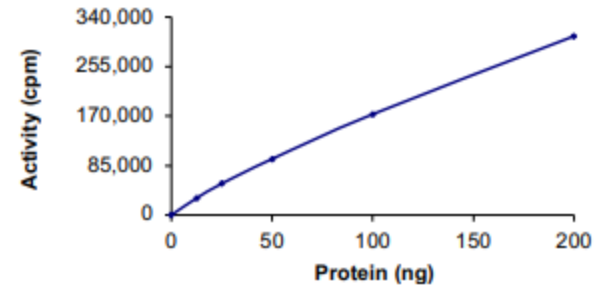


Active PDPK1

CATALOG #:	7706-5
SOURCE:	Sf 9 cells
ACCESSION NO.:	O15530
NCBI GENE ID:	5170
PURITY:	> 90% by SDS-PAGE
ALTERNATIVE NAMES:	3-phosphoinositide dependent protein kinase 1; PDK1
MOLECULAR WEIGHT:	~67 kDa
FORMULATION:	In 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol
STORAGE CONDITIONS:	Aliquot and store at or below -70 °C. Avoid repeated freeze-thaw cycles.

BACKGROUND DESCRIPTION: The 3-phosphoinositide-dependent protein kinase (PDPK1) is activated by the presence of phosphatidylinositols (PtdIns). PDPK1 subsequently activates protein kinase B (PKB), which in turn inactivates glycogen synthase kinase-3 (GSK3). This mediates the phosphorylation state of substrates of PKB and GSK3, which is likely to mediate many of the intracellular actions of insulin. This product is a full-length PDPK1 protein with an N-terminal His tag.



Specific activity of serial dilutions of PDPK1 is determined by the incorporation of radiolabeled ATP containing phosphorus-33 into assay substrate.

RELATED PRODUCTS:

- PDK1 Antibody (**Cat. No. 3449-100**)
- PDK1 Blocking peptide (**Cat. No. 3449BP-50**)
- AKT1/PKB (Human) ELISA Kit (**Cat. No. K4166**)
- Insulin, Human Recombinant (E. coli) (**Cat. No. 4772**)
- Phospho-GSK3 (Tyr216) Antibody (**Cat. No. A1037**)

FOR RESEARCH USE ONLY! Not to be used in humans.