

Active Recombinant Human PDPK1, GST-tagged

Cat. No. PDPK1-561H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDPK1, full length with N-terminal GST tag, MW=89 kDa, expressed in a Baculovirus infected Sf9 cell expression system.
Species	Human
Source	Sf9 Cells
Description	In the field of biochemistry, 3-phosphoinositide dependent protein kinase-1, also known as PDPK1 is a protein which in humans is encoded by thePDPK1 gene. It is implicated in the development and progression of melanomas.
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 20% glycerol, and 3 mM DTT.
Bio-activity	5.02 pmol/min/μg Enzyme reaction is conducted in a buffer containing 50 mM HEPES (pH7.5), 10 mM MgCl ₂ , 1 mM EGTA, 200 μM ATP, 0.01% Brij-35 and 2 μM substrate (SER/THR 6, Invitrogen) at room temperature for 1 hour.
Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Stability	>6 months at -80°C
Full Length	Full L.

GENE INFORMATION

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Gene Name	PDPK1 3-phosphoinositide dependent protein kinase-1 [Homo sapiens (human)]
Official Symbol	PDPK1
Synonyms	PDPK1; PDK1; PDK2; PRO0461; 3-phosphoinositide dependent protein kinase-1; 3-phosphoinositide-dependent protein kinase 1; PKB kinase like gene 1; NP_001248745.1; EC 2.7.11.1; NP_002604.1
Gene ID	5170
mRNA Refseq	NM_002613
Protein Refseq	NP_002604
MIM	605213
UniProt ID	O15530
Chromosome Location	16p13.3
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events; Activation of PKB; Adaptive Immune System
Function	3-phosphoinositide-dependent protein kinase activity; ATP binding; insulin receptor binding

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