# 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 MgCl2, 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

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 Name** | PDPK1 3-phosphoinositide dependent protein kinase-1 [ Homo sapiens (human) ] |
| **Official Symbol** | PDPK1 |
| **Synonyms** | PDPK1; PDK1; PDPK2; 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 |

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