

Active Recombinant Human CDK18&CCNY, GST-tagged

Cat. No. CDK18&CCNY-826H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human PCTK3 and Cyclin Y (2-end) were co-expressed by baculovirus in Sf9 insect cells using N-terminal GST tags.
Species	Human
Source	Sf9 Cells
ProteinLength	PCTK3 (Full length) and Cyclin Y (2-end)
Description	PCTK3 or PCTAIRE protein kinase 3 is a member of the cdc2/cdkx subfamily of the ser/thr family of protein kinases. PCTK3 is thought to play a role in terminally differentiated neurons and it contains an N-terminal extension relative to CDC2. PCTK3 is expressed in a variety of human cell lines and tissues. Elevation in the protein levels of PCTAIRE 3 in the temporal cortex of Alzheimer's disease relative to control brains, have been observed. It is proposed that PCTAIRE 3 is a paired helical filaments-associated kinase that modulates tau phosphorylation.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	46 nmol/min/mg
Molecular Mass	PCTK3 ~76 kDa and Cyclin Y ~64 kDa
Purity	>70%

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Applications	Kinase Assay, Western Blot
Stability	1yr at –70°C from date of shipment
Storage	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1ug/ul

GENE INFORMATION

Gene Name	CDK18 cyclin-dependent kinase 18 [Homo sapiens]
Official Symbol	CDK18
Synonyms	CDK18; cyclin-dependent kinase 18; PCTAIRE protein kinase 3 , PCTK3; PCTAIRE3; PCTAIRE protein kinase 3; PCTAIRE-motif protein kinase 3; cell division protein kinase 18; serine/threonine-protein kinase PCTAIRE-3; PCTK3; PCTAIRE;
Gene ID	5129
mRNA Refseq	NM_002596
Protein Refseq	NP_002587
MIM	169190
UniProt ID	Q07002
Chromosome Location	1q31-q32

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Function

ATP binding; cyclin-dependent protein kinase activity; nucleotide binding; protein serine/threonine kinase activity; signal transducer activity;

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