

## Active Recombinant Human CDK18&CCNY, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Full-length recombinant human PCKT3 and Cyclin Y (2-end) were co-expressed by baculovirus in Sf9 insect cells using N-terminal GST tags.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	PCKT3 (Full length) and Cyclin Y (2-end)
<b>Description</b>	<p>PCKT3 or PCKTAIRE protein kinase 3 is a member of the cdc2/cdkx subfamily of the ser/thr family of protein kinases. PCKT3 is thought to play a role in terminally differentiated neurons and it contains an N-terminal extension relative to CDC2.</p> <p>PCKT3 is expressed in a variety of human cell lines and tissues. Elevation in the protein levels of PCKTAIRE 3 in the temporal cortex of Alzheimer"s disease relative to control brains, have been observed. It is proposed that PCKTAIRE 3 is a paired helical filaments-associated kinase that modulates tau phosphorylation.</p>
<b>Form</b>	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.
<b>Bio-activity</b>	46 nmol/min/mg
<b>Molecular Mass</b>	PCKT3 ~76 kDa and Cyclin Y ~64 kDa
<b>Purity</b>	>70%

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<b>Applications</b>	Kinase Assay, Western Blot
<b>Stability</b>	1yr at -70°C from date of shipment
<b>Storage</b>	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.
<b>Concentration</b>	0.1ug/ul

## GENE INFORMATION

<b>Gene Name</b>	CDK18 cyclin-dependent kinase 18 [ Homo sapiens ]
<b>Official Symbol</b>	CDK18
<b>Synonyms</b>	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;
<b>Gene ID</b>	5129
<b>mRNA Refseq</b>	NM_002596
<b>Protein Refseq</b>	NP_002587
<b>MIM</b>	169190
<b>UniProt ID</b>	Q07002
<b>Chromosome Location</b>	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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