

Active Recombinant Human PCTK1 (CDK16)/CyclinY, GST-tagged

Cat. No. CDK16-115H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PCTK1 (CDK16) (107-end) 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	107-end;2-end a.a.
Description	PCTK1 or PCTAIRE PROTEIN KINASE 1 belongs to the cdc2/cdkx subfamily of the ser/thr family of protein kinases. PCTK1 plays a role in signal transduction cascades in terminally differentiated cells, in exocytosis, and in transport of secretory cargo from the endoplasmic reticulum. PCTK1 is ubiquitously expressed with the highest levels detected in the brain and testis. PCTK1 also contained the gene coding for ubiquitin-activating enzyme UBE1 that previously shown to mapped to Xp11.3.
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	The specific activity of PCTK1 (CDK16)/Cyclin was determined to be 40.0 nmol /min/mg
Molecular Mass	PCTK1 (CDK16) ~ 66kDa and Cyclin Y~ 64kDa

 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

Purity	>90% by densitometry
Applications	Kinase Assay, Western Blot
Storage	Store product at –70 centigrade. 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	0.1 µg/µl

GENE INFORMATION

Gene Name	CDK16 cyclin-dependent kinase 16 [Homo sapiens]
Official Symbol	CDK16
Synonyms	CDK16; cyclin-dependent kinase 16; PCTAIRE protein kinase 1 , PCTK1; FLJ16665; PCTAIRE; PCTAIRE1; PCTGAIRE; serine/threonine protein kinase; PCTAIRE-motif protein kinase 1; cell division protein kinase 16; serine/threonine-protein kinase PCTAIRE-1; PCTK1;
Gene ID	5127
mRNA Refseq	NM_001170460
Protein Refseq	NP_001163931
MIM	311550
UniProt ID	Q00536

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Chromosome Location	Xp11
Function	ATP binding; cyclin-dependent protein kinase activity; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity;

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