

# Active Recombinant Human CDK9/CCNK protein, GST-tagged

Cat. No. CDK9-26809TH Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human CDK9 and CCNK were co-expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag on both proteins.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	CDK9/CCNK is a member of the cyclin-dependent protein kinase (CDK) family. CDK9 is closely related to cdc28 and cdc2 and is an important regulator of the cell cycle. CDK9 is a component of the multiprotein complex TAK/P-TEF $\beta$ . CDK9 can modulate RNA polymerase II-directed transcription by phosphorylating the C-terminal domain of the largest subunit of RNA polymerase II. CDK9 forms a complex with and is regulated by its regulatory subunit cyclin T or cyclin K. CDK9 also interacts with the HIV-1 Tat protein which suggested a possible involvement of this protein in AIDS.
<b>Form</b>	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>	18nmol/min/mg
<b>Molecular Mass</b>	CDK9~68 kDa; CCNK~67 kDa
<b>Purity</b>	The purity of CDK9/CCNK was determined to be >85% by densitometry.
<b>Applications</b>	Kinase Assay; WB

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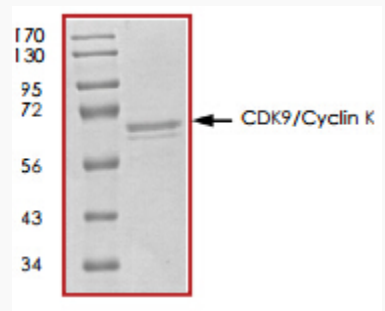
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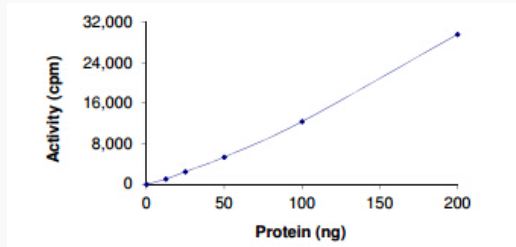
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<b>Stability</b>	1 year at -70 centigrade
<b>Storage</b>	Store product at -70 centigrade
<b>Concentration</b>	0.1 µg/µL

## GENE INFORMATION

<b>Gene Name</b>	cyclin dependent kinase 9 [ Homo sapiens (human) ]
<b>Official Symbol</b>	CDK9
<b>Synonyms</b>	TAK; C-2k; CTK1; CDC2L4; PITALRE; CPR4
<b>Gene ID</b>	1025
<b>mRNA Refseq</b>	NM_001261
<b>Protein Refseq</b>	NP_001252
<b>MIM</b>	603251
<b>UniProt ID</b>	P50750





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