

Active Recombinant Human CDK9/CCNK protein, GST-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Insect Cells
Description	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-TEFβ. 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.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	18nmol/min/mg
Molecular Mass	CDK9~68 kDa; CCNK~67 kDa
Purity	The purity of CDK9/CCNK was determined to be >85% by densitometry.
Applications	Kinase Assay; WB

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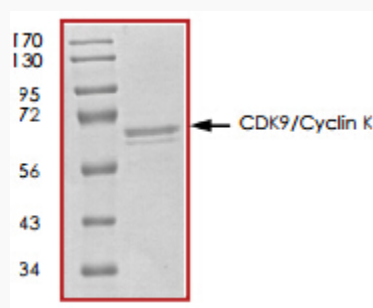
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 45-1 Ramsey Road, Shirley, NY 11967, USA

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

GENE INFORMATION

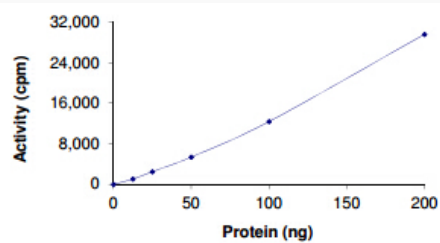
Gene Name	cyclin dependent kinase 9 [Homo sapiens (human)]
Official Symbol	CDK9
Synonyms	TAK; C-2k; CTK1; CDC2L4; PITALRE; CPR4
Gene ID	1025
mRNA Refseq	NM_001261
Protein Refseq	NP_001252
MIM	603251
UniProt ID	P50750



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