

# Recombinant Human Cyclin-Dependent Kinase 9, GST-tagged, Active

**Cat. No.** CDK9-280H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human full-length CDK9 and CyclinK were co-expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag on both proteins. MW=68 kDa and CyclinK~67 kDa.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	CDK9/CyclinK 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.
<b>Sequence</b>	Full-length.
<b>Applications</b>	Kinase Assay, Western Blot.
<b>Purity</b>	Sample Purity Data. For specific information on a given lot, see related technical data sheet.
<b>Storage And Stability</b>	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after

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centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	CDK9 cyclin-dependent kinase 9 [ Homo sapiens ]
<b>Synonyms</b>	CDK9; cyclin-dependent kinase 9; TAK; C-2k; CTK1; CDC2L4; PITALRE; cyclin-dependent kinase 9 (CDC2-related kinase); Cell division protein kinase 9; EC2.7.11.22; EC2.7.11.23; Cyclin-dependent kinase 9; Serine/threonine-protein kinase; Cell division cycle 2-like protein kinase 4
<b>Gene ID</b>	1025
<b>mRNA Refseq</b>	NM_001261
<b>Protein Refseq</b>	NP_001252
<b>UniProt ID</b>	P50750
<b>Chromosome Location</b>	9q34.1
<b>MIM</b>	603251
<b>Pathway</b>	Gene Expression; HIV Infection; Transcription
<b>Function</b>	ATP binding; DNA binding; RNA polymerase II carboxy-terminal domain kinase activity; cyclin-dependent protein kinase activity; nucleotide binding; protein binding; snRNA binding; transferase activity

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