

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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Sf9 Cells
Description	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.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Purity	Sample Purity Data. For specific information on a given lot, see related technical data sheet.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after

 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

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

GENE INFORMATION

Gene Name	CDK9 cyclin-dependent kinase 9 [Homo sapiens]
Synonyms	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
Gene ID	1025
mRNA Refseq	NM_001261
Protein Refseq	NP_001252
UniProt ID	P50750
Chromosome Location	9q34.1
MIM	603251
Pathway	Gene Expression; HIV Infection; Transcription
Function	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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