

Bioactive

Full-Length

CDK9/CCNK (Human) Recombinant Protein

Catalog # P6480

Size 5 ug

Applications

Result of activity analysis

Result of activity analysis



Specification

Product Description	Human CDK9/CCNK (NP_001252.1/NP_001092872.1) full length recombinant protein with GST-tag at N-terminal using baculovirus expression system.
Host	Viruses
Form	Liquid
Preparation Method	Baculovirus expression system.
Purification	Glutathione sepharose chromatography.
Purity	0.99
Activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescein-labeled substrate and Mg (or Mn)/ATP. Substrate: CDK9 substrate, ATP: 100 uM.
Quality Control Testing	The purity was assessed by SDS-PAGE/CBB staining.
Storage Buffer	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5
Storage Instruction	Stored at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Result of activity analysis
Result of activity analysis

Applications

- Functional Study

Gene Info — CDK9

Entrez GeneID	1025
Protein Accession#	NP_001252.1;NP_001092872.1
Gene Name	CDK9
Gene Alias	C-2k, CDC2L4, CTK1, PITALRE, TAK
Gene Description	cyclin-dependent kinase 9
Omim ID	603251
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of <i>S. cerevisiae</i> cdc28, and <i>S. pombe</i> cdc2, and known as important cell cycle regulators. This kinase was found to be a component of the multiprotein complex TAK/P-TEFb, which is an elongation factor for RNA polymerase II-directed transcription and functions by phosphorylating the C-terminal domain of the largest subunit of RNA polymerase II. This protein forms a complex with and is regulated by its regulatory subunit cyclin T or cyclin K. HIV-1 Tat protein was found to interact with this protein and cyclin T, which suggested a possible involvement of this protein in AIDS. [provided by RefSeq]
Other Designations	CDC2-related kinase OTTHUMP00000022198 cell division protein kinase 9 serine/threonine protein kinase PITALRE

Gene Info — CCNK

Entrez GeneID	8812
Protein Accession#	NP_001252.1;NP_001092872.1
Gene Name	CCNK
Gene Alias	CPR4, MGC9113

Gene Description	cyclin K
Omim ID	603544
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the transcription cyclin family. These cyclins may regulate transcription through their association with and activation of cyclin-dependent kinases (CDK) that phosphorylate the C-terminal domain (CTD) of the large subunit of RNA polymerase II. This gene product may play a dual role in regulating CDK and RNA polymerase II activities. [provided by RefSeq]
Other Designations	-

Disease

- [Kidney Failure](#)