

Bioactive

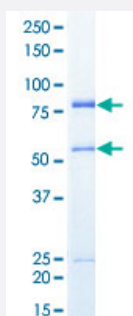
Full-Length

# CDK8/CCNC (Human) Recombinant Protein

Catalog # P5517

Size 5 ug

## Applications



## Result of activity analysis

Result of activity analysis

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## Specification

<b>Product Description</b>	Human CDK8 (NP_001251.1, 1 a.a. - 464 a.a.) and CCNC (NP_005181.2, 1 a.a. - 283 a.a.) full-length recombinant protein with GST tag expressed in baculovirus infected Sf21 cells.
<b>Host</b>	insect
<b>Theoretical MW (kDa)</b>	80
<b>Form</b>	Liquid
<b>Preparation Method</b>	Baculovirus infected insect cell (Sf21) expression system
<b>Purification</b>	Glutathione sepharose chromatography
<b>Purity</b>	91 % by SDS-PAGE/CBB staining

<b>Activity</b>	The activity was determined by ELISA. The enzyme was incubated with biotinylated substrate protein , and after stopping kinase reaction by EDTA, the reaction solution was transferred into streptavidin-coated plate. Phosphorylation was detected by anti-phospho antibody and HRP-labeled anti-rabbit Ig G. Substrate: RNA polymerase peptide. ATP: 100 uM.
<b>Quality Control Testing</b>	Loading 1 ug protein in SDS-PAGE
<b>Storage Buffer</b>	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Result of activity analysis Result of activity analysis

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — CCNC

<b>Entrez GeneID</b>	<a href="#">892</a>
<b>Protein Accession#</b>	<a href="#">NP_001251.1 (Gene ID : 1024);NP_005181.2 (Gene ID : 892)</a>
<b>Gene Name</b>	CCNC
<b>Gene Alias</b>	CycC
<b>Gene Description</b>	cyclin C
<b>Omim ID</b>	<a href="#">123838</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	The protein encoded by this gene is a member of the cyclin family of proteins. The encoded protein interacts with cyclin-dependent kinase 8 and induces the phosphorylation of the carboxy-terminal domain of the large subunit of RNA polymerase II. The level of mRNAs for this gene peaks in the G1 phase of the cell cycle. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
<b>Other Designations</b>	OTTHUMP00000016897

## Gene Info — CDK8

**Entrez GeneID** [1024](#)

**Protein Accession#** [NP\\_001251.1 \(Gene ID : 1024\);NP\\_005181.2 \(Gene ID : 892\)](#)

**Gene Name** CDK8

**Gene Alias** K35, MGC126074, MGC126075

**Gene Description** cyclin-dependent kinase 8

**Omim ID** [603184](#)

**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 *Saccharomyces cerevisiae* cdc28, and *Schizosaccharomyces pombe* cdc2, and are known to be important regulators of cell cycle progression. This kinase and its regulatory subunit cyclin C are components of the RNA polymerase II holoenzyme complex, which phosphorylates the carboxy-terminal domain (CTD) of the largest subunit of RNA polymerase II. This kinase has also been shown to regulate transcription by targeting the CDK7/cyclin H subunits of the general transcription initiation factor IIH (TFIIH), thus providing a link between the 'Mediator-like' protein complexes and the basal transcription machinery. [provided by RefSeq]

**Other Designations** CDK8 protein kinase|OTTHUMP00000018158|cell division protein kinase 8|protein kinase K35