

Recombinant Human CDK8, MYC/DDK-tagged

Cat. No. CDK8-10H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDK8, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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>Saccharomyces cerevisiae</i> cdc28, and <i>Schizosaccharomyces pombe</i> 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.
Molecular Mass	53.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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GENE INFORMATION

Gene Name	CDK8 cyclin-dependent kinase 8 [Homo sapiens (human)]
Official Symbol	CDK8
Synonyms	cyclin-dependent kinase 8; K35; MGC126074; MGC126075; protein kinase K35; CDK8 protein kinase; cell division protein kinase 8; EC 2.7.11.22,EC 2.7.11.23; Protein kinase K35; CDK8; OTTHUMP00000018158; Mediator complex subunit CDK8; Mediator of RNA polymerase II transcription subunit CDK8
Gene ID	1024
mRNA Refseq	NM_001260
Protein Refseq	NP_001251
MIM	603184
UniProt ID	P49336
Chromosome Location	13q12
Pathway	Constitutive Signaling by NOTCH1 HD+PEST Domain Mutants; Developmental Biology; Fatty acid, triacylglycerol, and ketone body metabolism
Function	ATP binding; RNA polymerase II carboxy-terminal domain kinase activity; cyclin-dependent protein serine/threonine kinase activity; protein binding

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