

Recombinant Human CDK8, His-tagged

Cat. No. CDK8-09H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CDK8 fused to 6*His tag with the vector PET28a was expressed in E. coli.
Species	Human
Source	E.coli
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.
Antigen Peptide Region	C-105aa
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.0) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.
OfficialSymbol	CDK8

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GENE INFORMATION

Gene Name	CDK8 cyclin-dependent kinase 8 [Homo sapiens]
Synonyms	CDK8; cyclin-dependent kinase 8; K35; protein kinase K35; CDK8 protein kinase; mediator complex subunit CDK8; cell division protein kinase 8; mediator of RNA polymerase II transcription subunit CDK8; Cell division protein kinase 8; Mediator of RNA polymerase II transcription subunit CDK8; Protein kinase K35; EC 2.7.11.22; EC 2.7.11.23; EC 2.7.11
Gene ID	1024
mRNA Refseq	NM_001260
Protein Refseq	NP_001251
MIM	603184
UniProt ID	P49336
Chromosome Location	13q12
Pathway	Developmental Biology; Fatty acid; Gene Expression
Function	ATP binding; RNA polymerase II carboxy-terminal domain kinase activity; cyclin-dependent protein kinase activity

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