

Recombinant Human CDK8, His-tagged

Cat. No. CDK8-08H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Cyclin-Dependent Kinase 8 is expressed in <i>E. coli</i> as a full-length protein fused to a proprietary 16-Kd tag (a 6xHis tag is located at the very N-terminal end). CDK8 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	CDK8 (cyclin-dependent kinase 8; protein kinase K35; CDK8 protein kinase; cell division protein kinase 8; K35) 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.
Purity	Greater than 90% as determined by SDS-PAGE.
Formulation	CDK8 is supplied at 0.1mg/ml in a buffer containing 25 mM HEPES, pH 7.9, 125mM KCl, 0.5% TX-100 and 50% glycerol.

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Application	CDK-8 can be used directly as a positive control in Western blotting, ELISA, immunoprecipitation and other immunological experiments. The biological activity of this product has not yet been tested.
Storage	Store at 4°C if entire vial will be used within 1-2 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.
GENE INFORMATION	
Gene Name	CDK8 cyclin-dependent kinase 8 [Homo sapiens]
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	Gene Expression

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Function

RNA polymerase II carboxy-terminal domain kinase activity; cyclin-dependent protein kinase activity; nucleotide binding; transferase activity; protein binding; ATP binding

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