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*E. coli*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 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.
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-8can 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 subunitCDK8; Mediator of RNA polymerase II transcription subunitCDK8
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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