

CDK-8 Human

Description: Cyclin-Dependent Kinase 8 Human Recombinant 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.

Catalog #: PKPS-317

For research use only.

Synonyms: Cell division protein kinase 8, EC 2.7.11.22, EC 2.7.11.23, Protein kinase K35, CDK-8, K35, MGC126074, MGC126075, CDK8.

Source: Escherichia Coli.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Applications:

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.

Introduction:

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.

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.

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