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CCNC Human

Catalog #:PKPS-318

For research use only.

Description: Cyclin C Recombinant is expressed in E.coli as a 35kDa tagged fusion protein corresponding to amino acids 120-303 of Cyclin C of human origin. Cyclin C is purified from bacterial lysates by glutathione agarose affinity chromatography.

Synonyms:CCNC, Cyclin C.

Source: Escherichia Coli.

Purity: Greater than 98% as determined by SDS-PAGE.

Formulation:
CCNC is supplied at 0.1mg/ml in Glycerol, TCEP, DTT, SDS, 1.0M Tris-HCl pH 6.7 and bromophenol blue.

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

Applications:
CCNC 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:
CCNC (cyclin C) is a member of the cyclin family of proteins. This protein interacts with cyclin-dependent kinase 8 (CDK8) and induces the phosphorylation of the carboxy-terminal domain of the large subunit of RNA polymerase II. The level of mRNAs for this protein peaks in the G1 phase of the cell cycle. It has been shown that a non-cdk8-associated cellular pool of CCNC combines with cdk3 to stimulate pRb phosphorylation at S807/811 during the G0/G1 transition, and that this phosphorylation is required for cells to exit GO efficiently. Other results have shown that a marked elevated immunoreactivity of CCNC was found both in neurons and astrocytes in Alzheimer's disease (AD). Increased levels of CCNC RNA were detected by ribonuclease protection assay (RPA) in severe AD cases and colocalization of CCNC and its preferred binding partner, CDK8, was only observed in astrocytes but not in neurons.

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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