

Recombinant Human Cyclin C

Cat. No. CCNC-07H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Cyclin C is expressed in <i>E.coli</i> 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.
Species	Human
Source	E.coli
Protein Length	120-303 a.a.
Description	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 G0 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.
Purity	Greater than 90.0% as determined by SDS-PAGE.

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Formulation	CCNC is supplied at 0.1mg/ml in Glycerol, TCEP, DTT, SDS, 1.0M Tris-HCl pH 6.7 and bromophenol blue.
Application	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.
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	CCNC cyclin C [Homo sapiens]
Synonyms	CCNC; cyclin C; CycC; OTTHUMP00000016897; hSRB11; SRB11 homolog
Gene ID	892
mRNA Refseq	NM_001013399
Protein Refseq	NP_001013417
MIM	123838
UniProt ID	P24863
Chromosome Location	6q21
Pathway	Gene Expression

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Function

protein binding

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