

Product Information

Cyclin C, GST-tagged, human recombinant, expressed in Sf9 cells

Catalog Number **SRP5346**
Storage Temperature -70°C

Synonyms: CCNC, CycC

Product Description

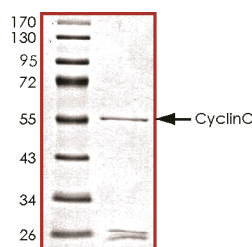
Cyclin C is a member of the cyclin family of proteins, interacts with the cyclin-dependent kinase 8 (CDK8), and induces the phosphorylation of the carboxy-terminal domain of the large subunit of RNA polymerase II. The mRNA levels of Cyclin C fluctuate during the cell cycle and peak at the G_1 phase. Cyclin C acts as a critical regulator of the G_0/G_1 transition of human hematopoietic stem cells.¹ Cyclin C can also combine with CDK3 to stimulate Rb phosphorylation at S807/811 during the G_0/G_1 transition, and this phosphorylation is required for cells to exit G_0 efficiently.²

Recombinant full-length human Cyclin C was expressed by baculovirus in Sf9 insect cells using an N-terminal GST-tag. The gene accession number is NM_005190. It is supplied in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~55 kDa

The enzymatic activity of this product has not been determined.

Figure 1.
SDS-PAGE Gel of Typical Lot:
 $\geq 70\%$ (SDS-PAGE, densitometry)



Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

References

1. Miyata, Y. et al., Cyclin C regulates human hematopoietic stem/progenitor cell quiescence. *Stem Cells.*, **28**(2), 308-17 (2010).
2. Ren, S. et al., Cyclin C/cdk3 promotes Rb-dependent G_0 exit. *Cell*, **117**(2), 239-51 (2004).

RC,MAM 10/12-1