

Product Information

Cyclin K, GST-tagged, human recombinant, expressed in *Sf9* cells

Catalog Number **SRP5344**
Storage Temperature -70°C

Synonyms: CCNK, CPR4, MGC9113

Product Description

Cyclin K is a member of the cyclin family, which can regulate transcription through the association with and activation of cyclin-dependent kinases (CDK). The CDK/Cyclin K complex can phosphorylate the C-terminal domain (CTD) of the large subunit of RNA polymerase II.¹ Cyclin K is associated with potent CTD kinase and CDK kinase activities *in vitro* and coimmunoprecipitates with POLR2A. Cyclin K is a new member of the transcription cyclin family, which may play a dual role in regulating CDK and RNA polymerase II activities.²

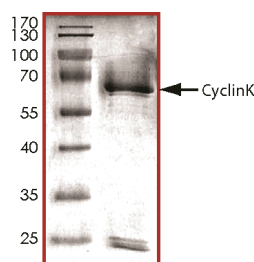
Recombinant full-length human Cyclin K was expressed by baculovirus in *Sf9* insect cells using an N-terminal GST-tag. The gene accession number is BC015935. It is supplied in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~67 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. Edwards, M.C. et al., Human cyclin K, a novel RNA polymerase II-associated cyclin possessing both carboxy-terminal domain kinase and Cdk-activating kinase activity. *Molec. Cell. Biol.*, **18**, 4291-4300 (1998).
2. Lin, X., P-TEFb containing cyclin K and Cdk9 can activate transcription via RNA. *J. Biol. Chem.*, **277**(19), 16873-8 (2002).

RC,MAM 10/12-1