

Product Information

Cyclin A2, GST-tagged, human recombinant, expressed in Sf9 cells

Catalog Number **SRP5343**
Storage Temperature $-70\text{ }^{\circ}\text{C}$

Synonyms: CCNA2, CCN1, CCNA

Product Description

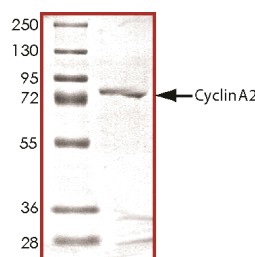
Cyclin A2 belongs to the highly conserved cyclin family whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle and function as regulators of CDKs. Cyclin A2 is an essential component of all embryonic and somatic cell cycles in mammals.¹ Cyclin A2 is highly expressed in the testis and certain myeloid leukemia cells.² Cyclin A also plays a major role in the control of DNA replication.³ Cyclin A2 binds and activates CDC2 or CDK2, and thus promotes both cell cycle G₁/S and G₂/M transitions.

Recombinant full-length human Cyclin A2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST-tag. The gene accession number is NM_001237. 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: ~78 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 $-70\text{ }^{\circ}\text{C}$ is recommended. After opening, aliquot into smaller quantities and store at $-70\text{ }^{\circ}\text{C}$. Avoid repeated handling and multiple freeze/thaw cycles.

References

1. Murphy, M. et al., Delayed early embryonic lethality following disruption of the murine cyclin A2 gene. *Nature Genet.*, **15**, 83-86 (1997).
2. Yang, R. et al., Characterization of a second human cyclin A that is highly expressed in testis and in several leukemic cell lines. *Cancer Res.*, **57**, 913-920 (1997).
3. Girard, F. et al., Cyclin A is required for the onset of DNA replication in mammalian fibroblasts. *Cell*, **67**, 1169-1179 (1991).

RC,MAM 10/12-1