Product Information

p21CIP1, GST-tagged, human recombinant, expressed in E. coli cells

Catalog Number SRP5108
Storage Temperature –70 °C

Synonyms: CDKN1A, P21, SDI1, WAF1, CAP20, CDKN1, MDA-6

Product Description
CIP1 (Cyclin-Dependent Kinase Inhibitor 1A) regulates cell cycle progression, terminal differentiation, and apoptosis.\(^1\) CIP1 was shown to be induced by p53 and to be a potent inhibitor of cyclin-dependent kinase (CDK) activity. DNA damage leads to increased expression of CIP1 in cyclin E-containing complexes and to an associated decrease in cyclin-dependent kinase activity. CIP1 is a critical downstream effector in the p53-specific pathway of growth control in mammalian cells.\(^2\)

Recombinant, full-length, human p21CIP1 was expressed in E. coli cells using an N-terminal GST tag. The gene accession number is NM_000389. Recombinant protein stored 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: \(\sim 46\) kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

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.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)

References

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