SignalChem
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1-866-9 KINASE (54-6273)

Catalogue #	Aliquot Size
C27-30G-50	50 µg
C27-30G-200	200 µg

p21CIP1 Protein

Full-length recombinant protein expressed in E. coli cells

Catalog # C27-30G
Lot # N355-1

Product Description

Recombinant full-length human p21CIP1 was expressed in E. coli cells using an N-terminal GST tag. The gene accession number is NM_000389.

Gene Aliases

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

Formulation

Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.

Storage and Stability

Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

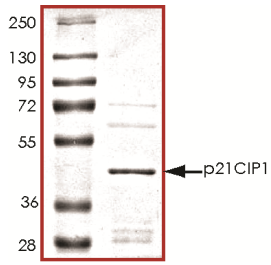
Scientific Background

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).

References

1. el-Deiry, W S. et al: WAF1/CIP1 is induced in p53-mediated G1 arrest and apoptosis. Cancer Res. 1994;54(5):1169-74.
2. Wagner, M. et al: Cyclin-dependent kinase-inhibitor 1 (CDKN1A) in the squamous epithelium of the oropharynx: possible implications of molecular biology and compartmentation. Anticancer Res. 2001; 21(1A):333-45.

Purity



The purity was determined to be **>80%** by densitometry.
Approx. MW **46kDa**.

p21CIP1 Protein

Full-length recombinant protein expressed in E. coli cells

Catalog Number	C27-30G
Specific Lot Number	N355-1
Purity	>80%
Concentration	0.2 µg/µl
Stability	1yr At –70°C from date of shipment
Storage & Shipping	Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on dry ice.

To place your order, please contact us by phone 1-(604)-232-4600, fax 1-604-232-4601 or by email: orders@signalchem.com
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