



Cyclin-dependent kinase inhibitor 1A (p21)

Catalog No. PY-20128

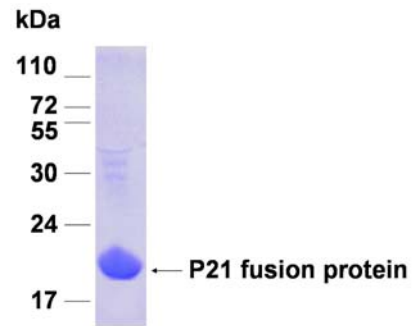
Scale: 1 mg

Form: lyophilized protein

Target description

This protein is a potent cyclin-dependent kinase inhibitor. It binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of p21 gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen (PCNA), a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of CDK2, and may be instrumental in the execution of apoptosis following caspase activation.

SDS PAGE analysis (Commassie blue staining)



15% SDS PAGE gel

Products

E. coli derived P21 (aa.20-149) fusion protein

Comments

Fusion tag : 4kDa (His-tag)

Purity : > 90%

Fusion protein size : ~20 kDa

Sequence:

LFGPVDSEQL SRDCDALMAG CIQEARERWN
FDFVTETPLEGDFAWERVRG LGLPKLYLPT
GPRRGRDELG GGRRPGTSPA LLOGTAEEDH
VDLSLSCTLVPRSGEQAEGS PGGPGDSQGR
KRRQTSMTDF

Storage

Redissolve the powder with 1ml sterile water will restore to the original concentration 1mg/ml. For long-term storage at -20°C. Aliquot to avoid repeated freezing and thawing.

Application

Dilute with 1XPBS for Western blot, ELISA test antigen, Immunogen

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