

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Cyclin-Dependent Kinase Inhibitor 2A (rHuP16-INK4a)

Catalog Number: PR6001

Source: Escherichia coli

Quantity: 10µg/50µg/1.0mg

Description

Cyclin-dependent kinase inhibitors (CDKIs) are proteins that bind to and inhibit the activity of CDKs. Two major classes of CDK inhibitors have been identified. The p16 family (p15, p16, p18 and p19) binds to and inhibits the activities of CDK4 and CDK6. The p21 family (p21, p27, p28 and p57) can bind to broad range of CDK-cyclin complexes and inhibit their activities. CDKIs are capable of suppressing growth, and several lines of evidence strongly suggest that at least some CDKIs may be tumor suppressor proteins.

Molecular Weight:

Approximately 16.5 kDa, a single non-glycosylated polypeptide chain containing 156 amino acids.

Purity:

>95% by SDS-PAGE and HPLC analyses.

Biological Activity:

Data Not Available.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.

AA Sequence:

MEPAAGSSMEPSADWLATAAARGRVE
EVRALLEAGALPNAPNSYGRRP IQVMM

MGSARVAELLLLHGAEPNCADPATLTR
PVHDAAREGFLDTLVVLHRAGARLDV
RDAWGRLPVDLAEELGHRDVARYLRA
AAGGTRGSNHARIDAAEGPSDIPD

Endotoxin:

Less than 1EU/mg of rHuP16 as determined by LAL method.

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

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