



Technical Data Sheet

Recombinant Cyclin-Dependent Kinase Inhibitor 2A (rHu P16-INK4a)

Human Cyclin-Dependent Kinase Inhibitors

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.

Catalog Number:	RC712-21
Source:	<i>Escherichia coli</i>
Molecular Weight:	Approximately 16.5 kDa, a single non-glycosylated polypeptide chain containing 156 amino acids.
Quantity:	10µg /50µg /1mg
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 0.2µm filtered concentrated (1mg/ml) solution in PBS, pH 7.4.
AA Sequence:	MEPAAGSSMEPSADWLATAAARGRVEEV RALLEAGALPNAPNSYGRRPIQV MMMGSARVAELLLLHGAEPNCADPATLTRPVHDAAREGFLDTLVVLHRAG ARLDVRDAWGRLPVDLAEE LGHRDVARYL RAAAGGTRGS NHARIDAAEG PSDIPD
Endotoxin:	Less than 1EU/µg 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 Bio Basic Inc. for research, laboratory or further



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