

Product Data Sheet

Product Name: p16-INK4a Human
 Cat. No.: GP22570
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.

Synonyms Cyclin-dependent kinase 4 inhibitor A; CDK4I; p16-INK4; p16-INK4a; p16INK4A; CDKN-2A; CDKN2; Multiple tumor suppressor 1; MTS

Amino Acid Sequence MEPAAGSSMEPSADWLATAAARGRVEEVRLLEAGALPNAPNSYGRRIQVMMMG SARVAELLLLHGAEPNCADPATLTRPVHDAAREGFLDTLVVLF

Solubility It is recommended to reconstitute the lyophilized Cyclin-dependent kinase in sterile water not less than 100µg/ml, which can then be used in various assays.

Formulation CDKN2A was lyophilized from a concentrated (1mg/ml) sterile solution containing 1x PBS pH-7.4.

Introduction

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.

Stability

Lyophilized Cyclin-dependent kinase although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Cyclin-dependent kinase should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Background

CDKN2A Human Recombinant produced in E.Coli, it's a single non-glycosylated polypeptide chain containing 156 amino acids, approximately 16.5 kDa.CDKN2A is purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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