



Product Datasheet

Product Name	Cyclin-Dependent Kinase Inhibitor 2A Human Recombinant
Cata No	CB500896
Source	<i>Escherichia Coli.</i>
Synonyms	Cyclin-dependent kinase 4 inhibitor A, CDK4I, p16-INK4, p16-INK4a, p16INK4A, CDKN-2A, CDKN2, Multiple tumor suppressor 1, MTS1, CMM2, MLM, TP16, p16(INK4), p19.

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.

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.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

CDKN2A was lyophilized from a concentrated

(1mg/ml) sterile solution containing 1x PBS pH-7.4.

Reconstitution

It is recommended to reconstitute the lyophilized Cyclin-dependent kinase in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

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.

Sequence

MEPAAGSSMEPSADWLATAAARGRVEEVRALLE
AGALPNAPNSYGRRIQVM
MMGSARVAELLLLHGAEPNCADPATLTRPVHDAA
REGFLDTLVVLHRAGARL
DVRDAWGRLPVDLAEELGHRDVARYLRAAAGGT
RGSNHARIDAAEGPSDIPD

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