

p16-INK4a Human

Description: 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.

Catalog #: PKPS-348

For research use only.

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.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:

MEPAAGSSMEPSADWLATAAARGRVEEV RALLEAGALPNAPNSYGRRIQVMMMG SARVAELL
LLHGAEPNCADPATLTRPVHDAAREGFLDTLVVLHRAGARLDVRDAWGRLPVDLAEELGHRDVA
RYLRAAAGGTRGSNHARIDAAEGPSDIPD.

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.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Cyclin-dependent kinase in sterile water not less than 100

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.

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