

CDKN1A Human

Description:CDKN1A Human Recombinant produced in E. coli is a single polypeptide chain containing 184 amino acids (1-164) and having a molecular mass of 20.2 kDa. CDKN1A is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:PKPS-050

For research use only.

Synonyms:Cyclin-Dependent Kinase Inhibitor 1A (P21, Cip1), Melanoma Differentiation Associated Protein 6, Wild-Type P53-Activated Fragment 1, CDK-Interaction Protein 1, DNA Synthesis Inhibitor, CDK-Interacting Protein 1, CDKN1, P21Cip1/Waf1, MDA6, P21CIP1, CAP20,

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MSEPAGDVRQ NPCGSKACRR
LFGPVDSEQL SRDCDALMAG CIQEARERWN FDFVTETPLE GDFAWERVGR LGLPKLYLPT
GPRRGRDELG GGRRPGTSPA LLQGTAEEDH VDLSLSCTLV PRSGEQAEGS PGGPGDSQGR
KRRQTSMTDF YHSKRRLIFS KRKP

Purity:Greater than 85.0% as determined by SDS-PAGE.

Formulation:

The CDKN1A solution contains 20mM Tris-HCl buffer (pH 8.0), 2M Urea, 0.1M NaCl and 10% glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple 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.

Introduction:

CDKN1A holds a key part in the cellular response to DNA mutation. CDKN1A overexpression causes cell cycle to stop. When collaborating with CDK2 complexes, CDKN1A aids to prevent kinase activity and inhibits progression through G1/S. Nevertheless, CDKN1A can additionally increase assembly and activity in complexes of CDK4 or CDK6 and cyclin D. CDKN1A is a vital intermediary by which p53/TP53 facilitates its part as an inhibitor of cellular proliferation as a reaction to DNA impairment.

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