CDKN2A Protein, Human

Cat. No.:	HY-P72785
Synonyms:	Cyclin-dependent kinase inhibitor 2A; CDK4I; MTS-1; p16INK4A
Species:	Human
Source:	E. coli
Accession:	P42771 (E2-D156)
Gene ID:	1029
Molecular Weight:	Approximately 19.12 kDa

PROPERTIES

AA Sequence	E P A A G S S M E P S A D W L A T A A A R G R V E E V R A L L E A G A L P N A P N S Y G R R P I Q V M M M G S A R V A E L L L L H G A E P N C A D P A T L T R P V H D A A R E G F L D T L V V L H R A G A R L D V R D A W G R L P V D L A E E L G H R D V A R Y L R A A A G G T R G S N H A R I D A A E G P S D I P D
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg; determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CDKN2A Protein serves as a potent negative regulator of normal cell proliferation by forming robust interactions with CDK4 and CDK6, thereby impeding their association with cyclins D and hampering the phosphorylation of the retinoblastoma protein. It functions in a heterodimeric fashion with either CDK4 or CDK6, with the majority of p16 complexes predominantly featuring CDK6. The interaction with CDK4, occurring with both 'T-172'-phosphorylated and non-phosphorylated forms, effectively inhibits the kinase activity of cyclin D-CDK4. Additionally, CDKN2A Protein engages with ISCO2, contributing to its regulatory role in cell cycle progression.

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