

Datasheet for ABIN1097281 **p21 Protein (AA 2-164) (His tag)**



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Overview

Quantity:	50 µg
Target:	p21 (CDKN1A)
Protein Characteristics:	AA 2-164
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This p21 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Cyclin-Dependent Kinase Inhibitor 1/CDKN1A/p21 (C-6His)
Sequence:	SEPAGDVRQN PCGSKACRRL FGPVDSEQLR RDCDALMAGC IQEARERWNF DFVTETPLEG DFAWERVRGL GLPKLYLPTG PRRGRDELGG GRRPGTSPAL LQGTAEEDHV DLSLSCTLVP RSGEQAEGSP GGPGDSQGRK RRQTSMTDFY HSKRRLIFSK RKPLEHHHHH H
Characteristics:	Recombinant Human Cyclin-Dependent Kinase Inhibitor 1/CDKN1A is produced by our E. coli expression system. The target protein is expressed with sequence (Ser2-Pro164) of Human CDKN1A fused with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	p21 (CDKN1A)
Alternative Name:	p21 (CDKN1A Products)
Sub Type:	Fusionprotein
Background:	<p>Cyclin-Dependent Kinase Inhibitor 1 (CDKN1A) is a member of the CDI family. CDKN1A is widely expressed in all adult tissues, but low expressed in the brain tissue. CDKN1A can be induced by p53/TP53, mezerein and IFNB1, repressed by HDAC1. CDKN1A may be an important intermediate, by which p53/TP53 mediates its role as an inhibitor of cellular proliferation in response to DNA damage, CDKN1A can bind to and inhibit cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression.</p> <p>Alternative Names: Cyclin-Dependent Kinase Inhibitor 1, CDK-Interacting Protein 1, Melanoma Differentiation-Associated Protein 6, MDA-6, p21, CDKN1A, CAP20, CDKN1, CIP1, MDA6, PIC1, SDI1, WAF1</p>
Molecular Weight:	19.25 kDa
UniProt:	P38936
Pathways:	p53 Signaling , PI3K-Akt Signaling , Cell Division Cycle , AMPK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Mitotic G1-G1/S Phases , DNA Replication , Hepatitis C , Synthesis of DNA , Autophagy

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Handling

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months