Recombinant Human P21 protein (His tag)

Catalog Number:PDEH100242

Note: Centrifuge before opening to ensure complete recovery of vial contents.

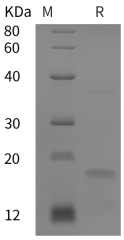
Description

Synonyms	CAP20;CDK-interacting protein 1;CDKI;CDKN1;CDN1A;CIP1;CDKN1A;Cyclin Dependent Kinase Inhibitor 1A;DNA Synthesis Inhibitor;MDA-6;MDA6;Melanoma differentiation-associated protein 6;P21cip1;P21waf;PIC1;SDI1;SLC12A9;WAF1
Species	Human
Expression Host	E.coli
Sequence	Gly 40-Pro 164
Accession	P38936
Calculated Molecular Weight	13.6 kDa
Observed molecular weight	18 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

May be the important intermediate by which p53/TP53 mediates its role as an inhibitor of cellular proliferation in response to DNA damage. Binds to and inhibits cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression. Functions in the nuclear localization and assembly of cyclin D-CDK4 complex and promotes its kinase activity towards RB1. At higher stoichiometric ratios, inhibits the kinase activity of the cyclin D-CDK4 complex.

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