

32-8095: Recombinant Human Cyclin-Dependent Kinase Inhibitor 1/CDKN1A/p21 (C-6His)

Gene : CDKN1A
Gene ID : 1026
Uniprot ID : P38936

Description

Source: E.coli.
MW :19.25kD.

Recombinant Human p21 Cyclin Dependent Kinase 4 Inhibitor 1A is produced by our E.coli expression system and the target gene encoding Ser2-Pro164 is expressed with a 6His tag at the C-terminus. 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.

Product Info

Amount : 10 µg / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. 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.
Amino Acid : SEPAGDVRQNPCGSKACRRFLGFPVDSEQLRRDCDALMAGCIQEARERWNFDFVTETPLEGDFAWERVRGLG
LPKLYLPTGPRRGRDELGGRRPGTSPALLQGTAEDHVDLSLSCTLVPRSGEQAEGSPGGPGDSQGRKRRQ
TSMTDFYHSKRRLIFSRRKPLEHHHHHH

Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

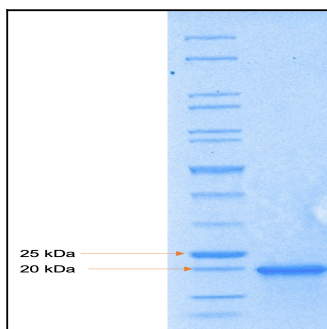


Figure 1: We loaded ~5 µg of recombinant protein under reducing condition (Coomassie Blue).