

Recombinant Human Cyclin-dependent kinase inhibitor 1(CDKN1A)

Catalog No: #AP70153

Package Size: #AP70153-1 20ug #AP70153-2 100ug #AP70153-3 1mg

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Recombinant Human Cyclin-dependent kinase inhibitor 1(CDKN1A)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-164aaSequence Info:Full Length
Other Names	CDK-interacting protein 1Melanoma differentiation-associated protein 6 ;MDA-6p21
Accession No.	P38936
Calculated MW	45 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	SEPAGDVRQNPCGSKACRRLFGPVDSEQLSRDCDALMAGCIQEARERWNFDVFTETPLEGDFAWERVRLGLPKLYLPTGPRRGRDELGGRRPGTSPALLQGTAEEDHVDLSLSCTLVPRSGEQAEGSPGGPGDSQGRKR RQTSMTDFYHSKRRLIFSKRKP
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

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 assbly 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.

References

The p21 Cdk-interacting protein Cip1 is a potent inhibitor of G1 cyclin-dependent kinases.Harper J.W., Adami G.R., Wei N., Keyomarsi K., Elledge S.J.Cell 75:805-816(1993)Research Topic:Cell Cycle

Note: This product is for in vitro research use only and is not intended for use in humans or animals.