

RESEARCH

OriGene Technologies, Inc.

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Product datasheet for TP301765L

p21 (CDKN1A) (NM_078467) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins	
Description:	Recombinant protein of human cyclin-dependent kinase inhibitor 1A (p21, Cip1) (CDKN1A), transcript variant 2, 1 mg	
Species:	Human	
Expression Host:	HEK293T	
Expression cDNA Clone or AA Sequence:	>RC201765 protein sequence Red=Cloning site Green=Tags(s)	
	MSEPAGDVRQNPCGSKACRRLFGPVDSEQLSRDCDALMAGCIQEARERWNFDFVTETPLEGDFAWERVRG LGLPKLYLPTGPRRGRDELGGGRRPGTSPALLQGTAEEDHVDLSLSCTLVPRSGEQAEGSPGGPGDSQGR KRRQTSMTDFYHSKRRLIFSKRKP	
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV	
Tag:	C-Myc/DDK	
Predicted MW:	17.9 kDa	
Concentration:	>0.05 µg/µL as determined by microplate BCA method	
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining	
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol	
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventiona chromatography steps.	
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.	
Storage:	Store at -80°C.	
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.	
RefSeq:	<u>NP 510867</u>	
Locus ID:	1026	
UniProt ID:	<u>P38936, A0A024RCX5</u>	



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	p21 (CDKN1A) (NM_078467) Human Recombinant Protein – TP301765L	
RefSeq Size:	2122	
Cytogenetics:	6p21.2	
RefSeq ORF:	492	
Synonyms:	CAP20; CDKN1; CIP1; MDA-6; P21; p21CIP1; SDI1; WAF1	
Summary: This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein bin and inhibits the activity of cyclin-cyclin-dependent kinase2 or -cyclin-dependent kinase4 complexes, and thus functions as a regulator of cell cycle progression at G1. The express this gene is tightly controlled by the tumor suppressor protein p53, through which this mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress This protein can interact with proliferating cell nuclear antigen, a DNA polymerase acce factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. protein was reported to be specifically cleaved by CASP3-like caspases, which thus lead dramatic activation of cyclin-dependent kinase2, and may be instrumental in the execu apoptosis following caspase activation. Mice that lack this gene have the ability to reger damaged or missing tissue. Multiple alternatively spliced variants have been found for gene. [provided by RefSeq, Sep 2015]		
Protein Families:	Druggable Genome	
Protein Pathway	Bladder cancer, Cell cycle, Chronic myeloid leukemia, ErbB signaling pathway, Glioma, Melanoma, p53 signaling pathway, Pathways in cancer, Prostate cancer	

Product images:

188	_	
98	-	
62	_	
49	-	
38	_	
28	_	
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Coomassie blue staining of purified CDKN1A protein (Cat# [TP301765]). The protein was produced from HEK293T cells transfected with CDKN1A cDNA clone (Cat# [RC201765]) using MegaTran 2.0 (Cat# [TT210002]).

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