

Recombinant Human Cyclin-Dependent Kinase Inhibitor 2C (p18, inhibits CDK4), His-tagged

Cat. No. CDKN2C-1377H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinanthuman CDKN2C protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	CDKN2C(Cyclin-dependent kinase 4 inhibitor C) belongs to the CDKN2cyclin-dependent kinase inhibitor family. It has been shown to interact withCDK4 or CDK6, and prevent the activation of the CDK kinases, thus function asa cell growth regulator that controls cell cycle G1 progression. And thisprotein suppresses the cell growth and proliferation with a correlateddependence on endogenous retinoblastoma protein RB. Studies in the knockout micesuggested the roles of this gene in regulating spermatogenesis, as well as insuppressing tumorigenesis.
Form	Liquid.In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 200mM NaCl.
Molecular Weight	20.7 kDa(192aa), confirmed by MALDI-TOF.
Purity	> 95% by SDS-PAGE
Concentration	0.5 mg/ml(determined by Bradford assay)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of aminoacids	MGSSHHHHHSSGLVPRGSH MGSMAEPWG NELASAAARG DLEQLTSLQ NNVNVNAQNG FGRTALQVMKLG NPEIARRL LLRANPDLK DRTGFAVIHD AARAGFLDTL QTLLEFQADV NIEDNEGNLP LHAAKEGHLRVVEFLVKHT ASNVGHRNHK GDTACDLARL YGRNEVVSLM QANGAGGATN LQ
Storage	Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	CellCycle; Cyclin D associated events in G1; E2F transcription factor network; G1Phase; G1 to S cell cycle control; HTLV-I infection; Mitotic G1-G1/S phases

GENE INFORMATION

Gene Name	CDKN2C cyclin-dependent kinaseinhibitor 2C (p18, inhibits CDK4) [Homo sapiens]
Official Symbol	CDKN2C
Synonyms	CDKN2C; cyclin-dependent kinase inhibitor 2C (p18,inhibits CDK4); p18; INK4C; p18-INK4C; cyclin-dependent kinase 4inhibitor C; p18-INK6; CDK6 inhibitor p18; OTTHUMP00000009730;OTTHUMP00000009731; cyclin-dependent inhibitor; cyclin-dependent kinase 6inhibitor p18
Gene ID	1031
mRNA Refseq	NM_001262
Protein Refseq	NP_001253
MIM	603369
UniProt ID	P42773

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Chromosome Location	1p32.3
Function	cyclin-dependentprotein kinase inhibitor activity; protein kinase binding

PDB rendering based on 1bu9.



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