

Recombinant human p18INK4c/CDKN2C protein

Catalog Number: ATGP1377

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-168aa

UniProt No.

P42773

NCBI Accession No.

NP_001253

Alternative Names

Cyclin-dependent kinase 4 inhibitor C, INK4C, p18, p18-INK4C

PRODUCT SPECIFICATION

Molecular Weight

20.7 kDa (192aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 200mM NaCl

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CDKN2C (Cyclin-dependent kinase 4 inhibitor C) belongs to the CDKN2 cyclin-dependent kinase inhibitor family. It has been shown to interact with CDK4 or CDK6, and prevent the activation of the CDK kinases, thus function as a cell growth regulator that controls cell cycle G1 progression. And this protein suppresses the cell growth and proliferation with a correlated dependence on endogenous retinoblastoma protein RB. Studies in the knockout mice suggested the roles of this gene in regulating spermatogenesis, as well as in suppressing tumorigenesis. Recombinant human CDKN2C protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by

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using conventional chromatography techniques.

Amino acid Sequence

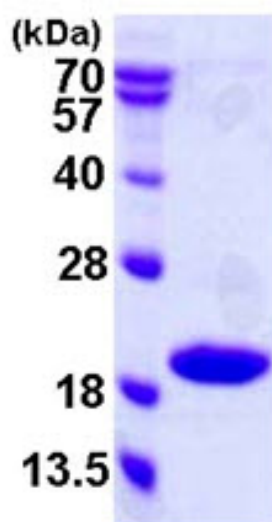
MGSSHHHHHHH SSGLVPRGSH MGSHEMAEPWG NELASAAARG DLEQLTSLQ NNVNVNAQNG FGRTALQVMK
LGNPEIARRL LLRGANPDLK DRTGFAVIHD AARAGFLDTL QTLLEFQADV NIEDNEGNLP LHAAKEGHL RVVEFLVKHT
ASNVGHRNHK GDTACDLARL YGRNEVVSLM QANGAGGATN LQ

General References

Blais A, et al. (1998).) *Biochem Biophys Res Commun* 247 (1): 146-53.
Serrano M, et al. (1994). *Nature* 366 (6456): 704-7.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)