

# Recombinant Human CDKN2D Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CDKN2D-5118H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

CDKN2D MS Standard C13 and N15-labeled recombinant protein (NP\_001791) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### Description

The protein encoded by this gene is a member of the INK4 family of cyclin-dependent kinase inhibitors. This protein has been shown to form a stable complex 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. The abundance of the transcript of this gene was found to oscillate in a cell-cycle dependent manner with the lowest expression at mid G1 and a maximal expression during S phase. The negative regulation of the cell cycle involved in this protein was shown to participate in repressing neuronal proliferation, as well as spermatogenesis. Two alternatively spliced variants of this gene, which encode an identical protein, have been reported.

### Molecular Mass

17.5 kDa

### AA Sequence

MLLEEVRAGDRLSGAAARGDVQEVRRLLHRELVHPDALNRFGKTALQVMMFGSTAI  
ALELLKQGASPNVQDTSVHDAARTGFLDTLKVLEHGADVNPDPGTGALPIHL  
AVQEGHTAVVSFLAAESDLHRRDARGLTPELALQRGAQDLVDILQGHMVAPLTRT  
RPLEQKLISEEDLAANDILDYKDDDDKV

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

<b>Gene Name</b>	CDKN2D cyclin dependent kinase inhibitor 2D [ Homo sapiens (human) ]
<b>Official Symbol</b>	CDKN2D
<b>Synonyms</b>	CDKN2D; cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4); cyclin-dependent kinase 4 inhibitor D; INK4D; p19; CDK inhibitor p19INK4d; inhibitor of cyclin-dependent kinase 4d; cyclin-dependent kinase 4 inhibitor D p19; cell cycle inhibitor, Nur77 associating protein; p19-INK4D;
<b>Gene ID</b>	1032
<b>mRNA Refseq</b>	NM_001800
<b>Protein Refseq</b>	NP_001791
<b>MIM</b>	600927
<b>UniProt ID</b>	P55273

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**SDS-PAGE**



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