

Recombinant Human CDKN2D protein, His & T7-tagged

Cat. No. CDKN2D-1254H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDKN2D aa. (Met1~Leu166 (Accession # P55273) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Leu166
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 21.4kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 5.7.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.

GENE INFORMATION

Gene Name	CDKN2D cyclin dependent kinase inhibitor 2D [Homo sapiens (human)]
Official Symbol	CDKN2D
Synonyms	CDKN2D; cyclin dependent kinase inhibitor 2D; p19; INK4D; p19-INK4D; cyclin-dependent kinase 4 inhibitor D; CDK inhibitor p19INK4d; cell cycle inhibitor, Nur77 associating protein; cyclin-dependent kinase 4 inhibitor D p19; cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4); inhibitor of cyclin-dependent kinase 4d

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Gene ID	1032
mRNA Refseq	NM_001800.3
Protein Refseq	NP_001791.1
UniProt ID	P55273
SDS-PAGE	