

## Recombinant Human CDK4 Protein, GST-tagged

**Cat. No.** CDK4-633H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CDK4 and CyclinD1 protein with a N-terminal GST-tag were expressed in Sf9 insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of <i>S. cerevisiae cdc28</i> and <i>S. pombe cdc2</i> . It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported.

### GENE INFORMATION

<b>Gene Name</b>	CDK4 cyclin dependent kinase 4 [ <i>Homo sapiens (human)</i> ]
<b>Official Symbol</b>	CDK4
<b>Synonyms</b>	CDK4; cyclin dependent kinase 4; CMM3; PSK-J3; cyclin-dependent kinase 4; cell

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division protein kinase 4

**Gene ID** 1019

**mRNA Refseq** NM\_000075

**Protein Refseq** NP\_000066

**MIM** 123829

**UniProt ID** P11802

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