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## Product Data Sheet

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Product Name: CDK2 Human, Sf9  
 Cat. No.: GP22442  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cyclin-Dependent Kinase 2; Cell Division Protein Kinase2; P33 Protein Kinase; EC 2.7.11.22; CDKN2; Cdc2-Related Protein Kinase; P33(CDK2); EC 2.7.11; Cyclin-dependent kinase 2.		
Amino Acid Sequence	MENFQKVEKI GEGTYGVVYK ARNKLTGEVV ALKKIRLDTE TEGVPSTAIRESLLKELNH PNIVKLLDVI HTENKLYLVF EFLHQDLKKF MDASALTGIP LPLIKSYLFQ LLQGLAFCHSHRVLHRDLKP QNLLINTEGA IKLADFGLAR AFGVPVRTYT HEVVTWLYRA PEILLGCKYYSTAVDIWSLG CIFAEMVTRR ALFPGDSEID QLFRIFRITLG TPDEVVWPGVTSMPDYKPSF PKWARQDFSK VVPPLDEDGR SLLSQMLHYD PNKRISAKAA LAHPFFQDVT KPVPHLRLLLEHHHHHH.		
Formulation	CDK2 protein solution (0.5 mg/ml) contains Phosphate buffered saline (pH 7.4), 30% glycerol, 2 mM DTT and 0.1 mM PMSF.		

### Introduction

Cyclin-dependent kinase 2 (CDK2) belongs to the Ser/Thr protein kinase family. CDK2 is highly homologous to the gene products of *S. cerevisiae* cdc28, and *S. pombe* cdc2. CDK2 is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is limited to the G1-S phase, and is vital for cell cycle G1/S phase transition. The CDK2 protein associates with and is regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). CDK2 activity is also regulated by protein phosphorylation.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CDK2 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 306 amino acids (1-298 a.a.) and having a molecular mass of 34.9 kDa. CDK2 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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