

## 32-8131: Recombinant Human Cyclin-Dependent Kinase 4/CDK4 (N-6His)(Discontinued)

**Gene :** CDK4  
**Gene ID :** 1019  
**Uniprot ID :** P11802

### Description

Source: E. coli.  
MW :37.2kD.

Recombinant Human Cyclin-Dependent Kinase 4 is produced by our E.coli expression system and the target gene encoding Met1-Glu303 is expressed with a 6His, T7 tag at the N-terminus. Cyclin-Dependent Kinase 4 (CDK4) is a member of the CMGC Ser/Thr protein kinase family and CDC2/CDKX subfamily. CDK4 is a component of Cyclin D-CDK4 (DC) complexes that phosphorylate and inhibit members of the retinoblastoma (RB) protein family including RB1 and regulate the cell-cycle during G1/S transition. These complexes are major integrators of various mitogenic and antimitogenic signals. It is shown that CDK4 is responsible for the phosphorylation of retinoblastoma gene product (Rb). Defects in CDK4 are a cause of susceptibility to cutaneous Malignant Melanoma Type 3.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** MGSSHHHHHSSGLVPRGSHMASMTGGQQMGRGSMATSRYEPAEIGVGAYGTVYKARDPHSGHFVALKS  
VRVPNGGGGGGLPISTVREVALRRLEAFEPNVRLMDVCATSRTDREIKVTLVFEHVDQDLRTRYLDKAPP  
GLPAETIKDLMRQFLRGLDFLHANCIVHRDLKPENILVTSGGTVKLADFLARIYSYQMALTPVVVTLWYRAPEV  
LLQSTYATPVDMWVSGCIFAEMFRRKPLFCGNSEADQLGKIFDLIGLPPEDDWPRDVSLPRGAFPPRGPRPVQS  
VVPMEESGAQLLLEMLTFNPHKRISAFRALQHSYLHKDEGNPE

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.