Recombinant Human CDK4, His-tagged

Cat. No. CDK4-16H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Cyclin-Dependent Kinase 4 is expressed in*E. coli*as a full-length protein having a molecular weight of 38 kDa fused to an amino terminal hexahistidine tag. The CDK4 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	Cyclin-dependent kinase 4 combines with the protein cyclin D to form a protein complex that promotes the passage of cells through the G1 checkpoint in the cell growth cycle. This cellular activity is regulated by the protein p16 produced by p16INK4a. Normally, p16 controls cell growth by inhibiting the activity of the CDK4–cyclin D complex and stopping cells at the G1 checkpoint.
Purity	Greater than 95% as determined by SDS-PAGE. Single band on Western Blot.
Formulation	CDK4 is supplied in 1x Laemmli Buffer (25mM Tris-HCl Ph-6.8, 50mM DTT, 1% (w/v) SDS, 0.1%(w/v) Bromophenol Blue and 2.5% Glycerol).
Application	CDK-4 can be used directly as a positive control in Western blotting, ELISA, immunoprecipitation and other immunological experiments. The biological activity of this product has not yet been tested.
Storage	Store at 4°C if entire vial will be used within 1-2 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	CDK4 cyclin-dependent kinase 4 [Homo sapiens]
Synonyms	cyclin-dependent kinase 4; CMM3; PSK-J3; MGC14458; CDK4; cell division kinase 4; melanoma cutaneous malignant, 3; EC 2.7.11.22
Gene ID	1019
mRNA Refseq	NM_000075
Protein Refseq	NP_000066
MIM	123829
UniProt ID	P11802
Chromosome Location	12q14
Pathway	Bladder cancer; Cell cycle; Chronic myeloid leukemia; Glioma; Melanoma; Non-small cell lung cancer; Pancreatic cancer; Pathways in cancer; Small cell lung cancer; T cell receptor signaling pathway; Tight junction; p53 signaling pathway; Cell Cycle, Mitotic
Function	cyclin-dependent protein kinase activity; ATP binding; nucleotide binding; transferase activity

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