

Recombinant Human CDK4/CCND3, GST-tagged, Active

Cat. No. CDK4/CCND3-275H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human full-length CDK4 and CyclinD3 were co-expressed by baculovirus in Sf9 cells using an N-terminal GST tag on both proteins. MW=58 kDa and CyclinD3 ~58 kDa.
Species	Human
Source	Sf9 Cells
Description	CDK4 is a member of the cyclin-dependent protein kinase family and is involved in the control of cell proliferation during the G1 phase of cell cycle. CDK4 forms a complex with the D-type cyclins and is inhibited by p16 (cyclin-dependent kinase inhibitor-2). CDK4 can mediate phosphorylation of the C-terminal region of RB protein leading to an active transcriptional repression of E2F complex. CDC37 and HSP90 can preferentially associate with the fraction of CDK4 not bound to D-type cyclins. SMAD3 is a major physiologic substrate of the G1 cyclin-dependent kinases CDK4 and CDK2.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

Gene Name	CDK4 cyclin-dependent kinase 4 [Homo sapiens],CCND3 cyclin D3 [Homo sapiens]
Synonyms	CDK4; cyclin-dependent kinase 4; CMM3; PSK-J3; MGC14458; cell division kinase 4; melanoma cutaneous malignant, 3; EC 2.7.11.22; CCND3;cyclin D3; G1/S-specific cyclin-D3
Gene ID	1019,896
mRNA Refseq	NM_000075,NM_001136017
Protein Refseq	NP_000066,NP_001129489
UniProt ID	P11802, P30281
Chromosome Location	12q14, 6p21
MIM	123829,123834
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; Jak-STAT signaling pathway;Wnt signaling pathway
Function	cyclin-dependent protein kinase activity; ATP binding; nucleotide binding; transferase activity;protein kinase binding; protein binding

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