

Recombinant Human CDK6/CCND1, His-tagged, GST-tagged, Active

Cat. No. CDK6/CCND1-277H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human full-length CDK6 and CyclinD1 were co-expressed by baculovirus in Sf9 insect cells using an N-terminal His tag on CDK6 and GST tag on CyclinD1 proteins. MW= 40kDa and CyclinD1 ~61kDa.

Species Human

Source Sf9 Cells

Description CDK6 is a member of the cyclin-dependent family of protein kinases that are important regulators of cell cycle progression. CDK6 activity is regulated by the D-type cyclins and members of the INK4 family of CDK inhibitors. The CDK6 kinase activity is detected in mid-G1 phase of the cell cycle and is responsible for the phosphorylation and regulation of the activity of tumor suppressor protein Rb. Although CDK6 and CDK4 can both phosphorylate multiple residues in the Rb protein, they do so with different residue selectivity in vitro; CDK6 phosphorylates Thr821 while CDK4 phosphorylates Thr826 on Rb protein.

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	CDK6 cyclin-dependent kinase 6 [Homo sapiens],CCND1 cyclin D1 [Homo sapiens]
Synonyms	CDK6; cyclin-dependent kinase 6; PLSTIRE; MGC59692;Cell division protein kinase 6;EC2.7.11.22; Serine/threonine-protein kinase; CCND1; cyclin D1; BCL1; PRAD1; U21B31; D11S287E; cyclin D1 (PRAD1: parathyroid adenomatosis 1); parathyroid adenomatosis 1; B-cell CLL/lymphoma 1; G1/S-specific cyclin D1; G1/S-specific cyclin-D1; PRAD1 oncogene; BCL-1 oncogene
Gene ID	1021,595
mRNA Refseq	NM_001145306,NM_053056
Protein Refseq	NP_001138778,NP_444284
UniProt ID	Q00534, P24385
Chromosome Location	7q21-q22,11q13
MIM	603368,168461
Pathway	Cell cycle; Chronic myeloid leukemia; Glioma; Melanoma; Non-small cell lung cancer; Pancreatic cancer; Pathways in cancer; Small cell lung cancer; p53 signaling pathway; Cell Cycle, Mitotic;Acute myeloid leukemia; Bladder cancer; Colorectal cancer; Endometrial cancer
Function	ATP binding; cyclin-dependent protein kinase activity; nucleotide binding; cyclin binding; transferase activity;protein complex binding; protein kinase binding

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