

Recombinant Human CDK6/CCND3, His-tagged, Active

Cat. No. CDK6/CCND3-278H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human full-length Recombinant full-length human CDK6 and CyclinD3 were co-expressed by baculovirus in Sf9 insect cells using an N-terminal His tag on both proteins. MW= 40kDa and CyclinD3 ~35kDa.
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.

 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	CDK6 cyclin-dependent kinase 6 [Homo sapiens],CCND3 cyclin D3 [Homo sapiens]
Synonyms	CDK6; cyclin-dependent kinase 6; PLSTIRE; MGC59692;Cell division protein kinase 6;EC2.7.11.22; Serine/threonine-protein kinase; CCND3;cyclin D3; G1/S-specific cyclin-D3
Gene ID	1021,896
mRNA Refseq	NM_001145306,NM_001136017
Protein Refseq	NP_001138778,NP_001129489
UniProt ID	Q00534, P30281
Chromosome Location	7q21-q22, 6p21
MIM	603368,123834
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;Jak-STAT signaling pathway; Wnt signaling pathway
Function	ATP binding; cyclin-dependent protein kinase activity; nucleotide binding; cyclin binding; transferase activity; protein kinase binding; protein binding

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