

Recombinant Human Cyclin-Dependent Kinase 6, His-tagged

Cat. No. CDK6-1002H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CDK6 was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
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 selectivities in vitro; CDK6 phosphorylates Thr821 while CDK4 phosphorylates Thr826 on Rb protein.
Applications	Kinase Assay; Western Blot
Molecular Weight	39 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.2 mM DTT, 25 % glycerol.

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Purity	> 90 %
Concentration	0.2 ug/ul
Sequences	Full-length
Storage	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.
Pathways	B Cell Receptor Signaling Pathway; C-MYB transcription factor network; Cell Cycle; Chronic myeloid leukemia; Coregulation of Androgen receptor activity; Cyclin D associated events in G1; G1 Phase; G1 to S cell cycle control; Glioma; IL2 signaling events mediated by STAT5; Measles; Melanoma; Mitotic G1-G1/S phases; Non-small cell lung cancer; Pancreatic cancer

GENE INFORMATION

Gene Name	CDK6 cyclin-dependent kinase 6 [Homo sapiens]
Official Symbol	CDK6
Synonyms	CDK6; cyclin-dependent kinase 6; PLSTIRE; MGC59692; OTTHUMP00000162478; OTTHUMP00000208823; cell division protein kinase 6; serine/threonine-protein kinase PLSTIRE; Cyclin-dependent kinase 6; EC 2.7.11.22
Gene ID	1021
mRNA Refseq	NM_001145306
Protein Refseq	NP_001138778

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MIM	603368
UniProt ID	Q00534
Chromosome Location	7q21-q22
Function	ATP binding; cyclin binding; cyclin-dependent protein kinase activity; nucleotide binding; protein binding
PDB rendering based on 1bi7.	