Recombinant Human CDK6, His-tagged

Cat. No. CDK6-27908TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Cdk6 with N-terminal His tag expressed by baculovirus in Sf9 insect cells, MWt 39kDa.
Species	Human
Description	The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of Saccharomyces cerevisiae cdc28, and Schizosaccharomyces pombe cdc2, and are known to be important regulators of cell cycle progression. This kinase is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression and G1/S transition. The activity of this kinase first appears in mid-G1 phase, which is controlled by the regulatory subunits including D-type cyclins and members of INK4 family of CDK inhibitors. This kinase, as well as CDK4, has been shown to phosphorylate, and thus regulate the activity of, tumor suppressor protein Rb. Expression of this gene is up-regulated in some types of cancer. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Conjugation	HIS
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: 150mM ImidazoleConstituents: 25% Glycerol, 50mM Sodium phosphate, 300mM Sodium chloride, 0.2mM DTT, 0.1mM PMSF, pH 7.0

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily.Contains 1 protein kinase domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	CDK6 cyclin-dependent kinase 6 [Homo sapiens]
Official Symbol	CDK6
Synonyms	CDK6; cyclin-dependent kinase 6; PLSTIRE;
Gene ID	1021
mRNA Refseq	NM_001145306
Protein Refseq	NP_001138778
MIM	603368
Uniprot ID	Q00534
Chromosome Location	7q21-q22
Pathway	B Cell Receptor Signaling Pathway, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle,

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	organism-specific biosystem;
Function	ATP binding; cyclin binding; cyclin-dependent protein kinase activity; nucleotide binding; protein binding;

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