

## Recombinant Human CDK6, His-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human Cdk6 with N-terminal His tag expressed by baculovirus in Sf9 insect cells, MWt 39kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | <p>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 <i>Saccharomyces cerevisiae</i> cdc28, and <i>Schizosaccharomyces pombe</i> 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.</p> |
| <b>Conjugation</b>      | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | >90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage buffer</b>   | Preservative: 150mM Imidazole<br>Constituents: 25% Glycerol, 50mM Sodium phosphate, 300mM Sodium chloride, 0.2mM DTT, 0.1mM PMSF, pH 7.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|                              |                                                                                                                                                                                                                                         |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>               | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                               |
| <b>Sequence Similarities</b> | Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily. Contains 1 protein kinase domain.                                                                                                   |
| <b>Full Length</b>           | Full L.                                                                                                                                                                                                                                 |
| <b>GENE INFORMATION</b>      |                                                                                                                                                                                                                                         |
| <b>Gene Name</b>             | CDK6 cyclin-dependent kinase 6 [ Homo sapiens ]                                                                                                                                                                                         |
| <b>Official Symbol</b>       | CDK6                                                                                                                                                                                                                                    |
| <b>Synonyms</b>              | CDK6; cyclin-dependent kinase 6; PLSTIRE;                                                                                                                                                                                               |
| <b>Gene ID</b>               | 1021                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>           | NM_001145306                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>        | NP_001138778                                                                                                                                                                                                                            |
| <b>MIM</b>                   | 603368                                                                                                                                                                                                                                  |
| <b>Uniprot ID</b>            | Q00534                                                                                                                                                                                                                                  |
| <b>Chromosome Location</b>   | 7q21-q22                                                                                                                                                                                                                                |
| <b>Pathway</b>               | 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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