

# Recombinant Human cyclin-dependent kinase 3, His-tagged

**Cat. No.** CDK3-215H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | CDK3, 1-305aa, Human, His tag, E.coli                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 1-305 a.a.                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | CDK3 is a member of the cyclin-dependent protein kinase family. The protein promotes entry into S phase, in part by activating members of the E2F family of transcription factors. The protein also associates with cyclin C and phosphorylates the retinoblastoma 1 protein to promote exit from G0. Recombinant human CDK3 protein, fused to His-tag at N-terminus, was expressed in E.coli. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1M Urea, 10% glycerol                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 37.4kDa (328aa)                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMDMFQKV EKIGEGTYGV VYKAKNRETG<br>QLVALKKIRL DLEMEGVPST AIREISLLKE LKHPNIVRLL DVVHNERKLY<br>LVFEFLSQDL KKYMDSTPGS ELPLHLIKSY LFQLLQGVSF CHSHRVIHRD<br>LKPQNLLINE LGAIKLADFG LARAFGVPLR TYTHEVVTWL YRAPEILLGS<br>KFYTTAVDIW SIGCIFAEMV TRKALFPGDS EIDQLFRIFR MLGTPSEDW<br>PGVTQLPDYK GSFPKWTRKG LEEIVPNLEP EGRDLLMQLL QYDPSQRITA<br>KTAHAHPYFS SPEPSPAARQ YVLQRFRRH     |

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>              | >85% by SDS - PAGE                                                                                                                                 |
| <b>Storage</b>             | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b>       | 0.25 mg/ml (determined by Bradford assay)                                                                                                          |
| <b>GENE INFORMATION</b>    |                                                                                                                                                    |
| <b>Gene Name</b>           | CDK3 cyclin-dependent kinase 3 [ Homo sapiens ]                                                                                                    |
| <b>Official Symbol</b>     | CDK3                                                                                                                                               |
| <b>Synonyms</b>            | CDK3; cyclin-dependent kinase 3; cell division protein kinase 3;                                                                                   |
| <b>Gene ID</b>             | 1018                                                                                                                                               |
| <b>mRNA Refseq</b>         | NM_001258                                                                                                                                          |
| <b>Protein Refseq</b>      | NP_001249                                                                                                                                          |
| <b>MIM</b>                 | 123828                                                                                                                                             |
| <b>UniProt ID</b>          | Q00526                                                                                                                                             |
| <b>Chromosome Location</b> | 17q22-qter                                                                                                                                         |
| <b>Function</b>            | ATP binding; cyclin-dependent protein kinase activity; nucleotide binding;                                                                         |