

Recombinant Human CDK3/CyclinE1, GST-tagged, Active

Cat. No. CDK3/CyclinE1-273H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CDK3 and Cyclin E1 were co-expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag on both proteins.
Species	Human
Source	Sf9 Cells
Description	CDK3/CyclinE1 is a member of the cyclin-dependent protein kinase family and promotes entry into S phase, in part by activating members of the E2F family of transcription factors. CDK3 can also associate with cyclin C and phosphorylates the retinoblastoma 1 protein to promote exit from G0. The CDK3 gene has been mapped to chromosomal location of 17q22-qter, telomeric to the BRCA1 gene by somatic cell hybrids analysis. The presence of a single point mutation in the CDK3 gene from several Mus musculus strains commonly used in the laboratory has been reported.
Molecular Weight	~60 kDa and CyclinE1 ~73 kDa.
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.

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GENE INFORMATION

Gene Name	CDK3 cyclin-dependent kinase 3 [Homo sapiens]CCNE1 cyclin E1 [Homo sapiens]
Synonyms	CDK3; cyclin-dependent kinase 3; OTTHUMP000000206828; EC 2.7.11.22;Cell division protein kinase 3; CCNE1; cyclin E1; CCNE; cyclin E1; cyclin Es; cyclin Et; CCNE
Gene ID	1018898
mRNA Refseq	NM_001258NM_001238
Protein Refseq	NP_001249NP_001229
MIM	123828123837
UniProt ID	Q00526P24864
Chromosome Location	17q22-qter19q12
Pathway	Cell cycle; Pathways in cancer; Prostate cancer; Small cell lung cancer; p53 signaling pathway
Function	ATP binding; cyclin-dependent protein kinase activity; nucleotide binding; protein binding; transferase activity; androgen receptor binding; protein complex binding; transcription coactivator activity

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