

Recombinant Human CDK3&Cyclin E1 Protein

Catalog No.: RP03311LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	1018&898	Q00526&P24864

Tags

N-GST (CDK3) & N-Flag-His (Cyclin E1)

Synonyms

CDK3; CDKN3; Cyclin-dependent kinase 3; Cyclin E1; CCNE1; CCNE; G1/S-specific cyclin-E1

Product Information

Source	Purification
Baculovirus-Insect Cells	> 85% by SDS-PAGE and HPLC

Calculated MW	Observed MW
61.6 kDa/41.9 kDa	50-60 kDa/48-52 kDa

Endotoxin

< 1.0 EU/μg of the protein by LAL method

Formulation

Supplied as a 0.22 μm filtered solution in 50 mM HEPES, 150 mM NaCl, 5% glycerol. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution

Please use running water to thaw it quickly.

Contact

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Background

CDK3 belongs to the cyclin-dependent protein kinase family and is a major player driving retinoblastoma (Rb) phosphorylation during the G0/G1 transition and in the early G1 phase of the cell cycle. CDK3 can also directly regulate the activity of E2 factor (E2F) by skipping the role of Rb in late G1, potentially via the phosphorylation of the E2F1 partner DP1. Beyond the cell cycle, CDK3 interacts with various transcription factors involved in cell proliferation, differentiation, and transformation driven by the epidermal growth factor receptor (EGFR)/rat sarcoma virus (Ras) signaling pathway.

Basic Information

Description

Recombinant Human CDK3&Cyclin E1 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-His305 (CDK3) & Met1-Ser341 (Cyclin E1)) of Human CDK3&CCNE1 (Accession #Q00526&P24864) fused with a N-GST (CDK3) & N-Flag-His (Cyclin E1) tag.

Bio-Activity

The activity of CDK3/Cyclin E1 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

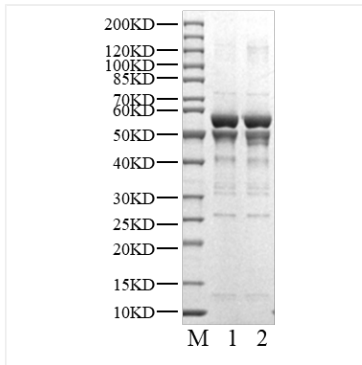
Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

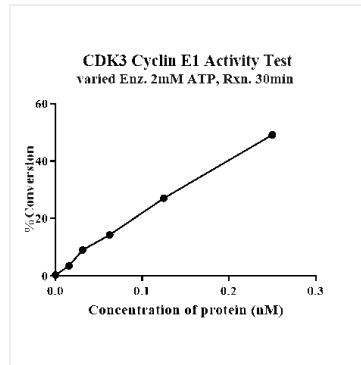
Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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Validation Data



Recombinant Human CDK3&Cyclin E1 Protein was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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