Recombinant Human CDK3&Cyclin E1 Kinase

Catalog No.: RP03311LQ

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Sequence Information

Species
Human

Gene ID
1018&898

Swiss Prot
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
Baculovirus-Insect Cells

Purification
≥ 85% as determined by SDS-PAGE;≥ 85% as determined by HPLC.

Calculated MW
61.6 kDa/41.9 kDa

Observed MW
50-60 kDa/48-52 kDa

Endotoxin
< 1 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.

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.

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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

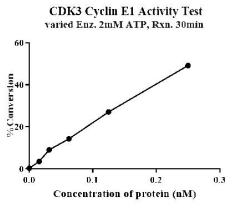
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

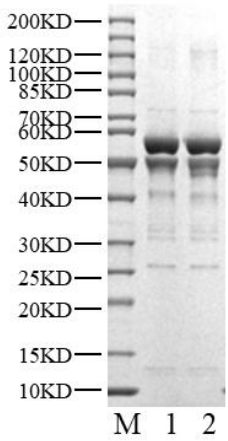
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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.



Recombinant Human CDK3&Cyclin E1 Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.