Recombinant Human CDK4&Cyclin D3 Kinase

Catalog No.: RP03312LQ

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Sequence Information

Species
Human

Gene ID
1019&896

Swiss Prot
P11802&P30281

Tags
N-GST (CDK4) & N-His (Cyclin D3)

Synonyms
CDK4; PSK-J3; Cyclin-dependent kinase 4; Cyclin D3; CCND3; G1/S-specific cyclin-D3

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW
60.3 kDa/35.0 kDa

Observed MW
50-60 kDa/30-40 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM HEPES, 200 mM NaCl, 5% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Background

CDK4 also known as cyclin-dependent kinase 4 or cell division protein kinase 4 is a member of the Ser/Thr protein kinase family. The activity of CDK4 is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16. CDK4/Cyclin D complex phosphorylate and inhibit members of the retinoblastoma (RB) protein family including RB1 and regulate the cell-cycle during G1/S transition.

Basic Information

Description
Recombinant Human CDK4&Cyclin D3 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Glu303 (CDK4) & Met1-Leu292 (Cyclin D3)) of Human CDK4&CCND3 (Accession #P11802&P30281) fused with a N-GST (CDK4) & N-His (Cyclin D3) tag.

Activity
The activity of CDK4/Cyclin D3 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℃

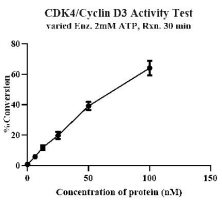
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

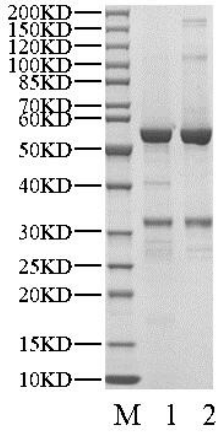
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



The activity of CDK4/Cyclin D3 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 CDK4&Cyclin D3 Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.

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