

Recombinant Human CDK4&Cyclin D3 Protein

Catalog No.: RP03312LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	1019&896	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	Purification
Baculovirus-Insect Cells	> 90% by SDS-PAGE and HPLC

Calculated MW	Observed MW
60.3 kDa/35.0 kDa	50-60 kDa/30-40 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, 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.

Contact

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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.

Bio-Activity

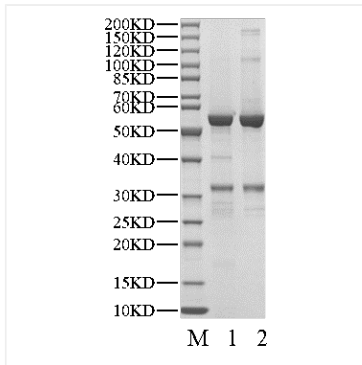
The activity of CDK4/Cyclin D3 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Storage

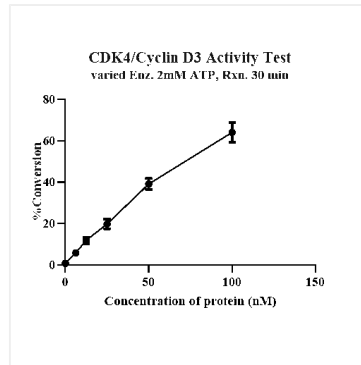
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

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

Validation Data



Recombinant Human CDK4&Cyclin D3 Protein was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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