

**Catalog No.: RP03313LQ** **Recombinant**

Species	Gene ID	Swiss Prot
Human	1019&595	P11802&P24385

N-GST (CDK4) & N-Flag-His (Cyclin D1)

CDK4; PSK-J3; Cyclin-dependent kinase  
4; Cyclin D1; CCND1; BCL1; PRAD1;  
G1/S-specific cyclin-D1

<b>Source</b>	<b>Purification</b>
Baculovirus-Insect Cells	≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

Calculated MW	Observed MW
60.3 kDa/36.5 kDa	50-60 kDa/30-40 kDa

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

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

Please use running water to thaw it quickly.

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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.

Recombinant Human CDK4/Cyclin D1 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Glu303 (CDK4) & Met1-Ile295 (Cyclin D1)) of Human CDK4/CCND1 (Accession #P11802&P24385) fused with a N-GST (CDK4) & N-Flag-His (Cyclin D1) tag.

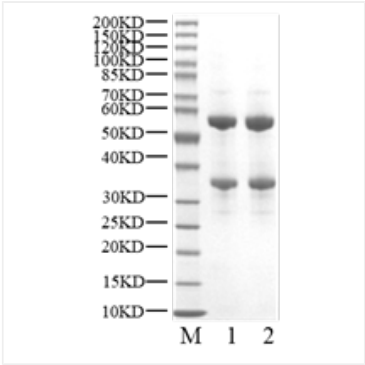
The activity of CDK4/Cyclin D1 is based on the ADP-Glo technology, and the ADP-GLO kinase activity assay quantifies kinase activity by measuring the conversion of ATP to ADP catalyzed by the kinase. Specific reagents are used to convert the ADP in the reaction back to ATP, resulting in the production of a luminescent signal.

Store at -70°C. This product is stable at  $\leq -70^{\circ}\text{C}$  for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

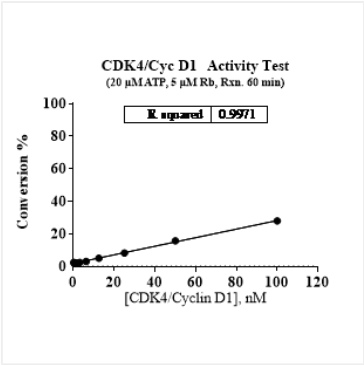
Aliquots below 10 µL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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Validation Data



Recombinant Human CDK4&Cyclin D1 Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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