Recombinant Human CDK4&Cyclin D1 Kinase

Catalog No.: RP03313LQ

Sequence Information

Species	Gene ID
Human	1019&595

Swiss Prot	Tags
P11802&P24385	N-GST (CDK4) & N-Flag-His (Cyclin D1)

Synonyms

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

Product Information

Source	Purification
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

Endotoxin

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

Formulation

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.

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 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.

Activity

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.

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

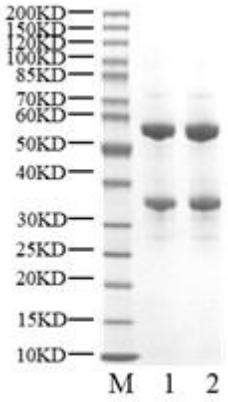
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

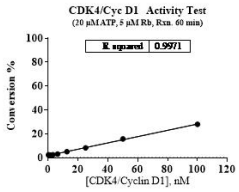
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For research use only. Not for therapeutic or diagnostic purposes.
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Validation Data



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



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