

Recombinant Human CDK2&Cyclin A2 Kinase

Catalog No.: RP03309LQ Recombinant

Sequence Information

 Species
 Gene ID
 Swiss Prot

 Human
 1017&890
 P24941&P20

 248
 248

Tags

N-GST (CDK2) & N-His (Cyclin A2)

Synonyms

CDK2; CDKN2; Cyclin-dependent kinase 2; Cyclin A2; CCNA2; CCN1; CCNA; Cyclin-A2

Product Information

Source Purification
Baculovirus-Insect $\geq 90 \%$ as
Cells determined by SDSPAGE; $\geq 90 \%$ as
determined by
HPLC.

Calculated MW Observed MW

60.4 kDa/32.8 kDa 50-60 kDa/25-30 kDa

Endotoxin

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

Formulation

Supplied as a 0.22 μ m filtered solution in 20 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

CDK2, also known as cyclin-dependent kinase 2, or cell division protein kinase 2, is a member of the cyclin-dependent kinase family of Ser/Thr protein kinases. This protein associates with and is regulated by the regulatory subunits of the complex including cyclin E or A. Cyclin E binds G1 phase CDK2, which is required for the transition from G1 to S phase while binding with Cyclin A is required to progress through the S phase. Abnormal expression of cyclin A2 is associated with chromosomal instability and tumor proliferation, while inhibition leads to decreased tumor growth. Therefore, CDK2 and its cyclin binding partners represent possible therapeutic targets for new cancer therapeutics.

Basic Information

Description

Recombinant Human CDK2&Cyclin A2 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Leu298 (CDK2) & Glu174-Leu432 (Cyclin A2)) of Human CDK2&CCNA2 (Accession #P24941&P20248) fused with a N-GST (CDK2) & N-His (Cyclin A2) tag.

Bio-Activity

The activity of CDK2/Cyclin A2 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

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

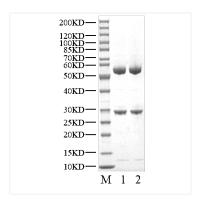
Storage

Store at -70°C. This product is stable at \leq -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.

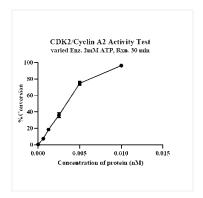
Aliquots below 10 μ L are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

Operational Notes

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



Recombinant Human CDK2&Cyclin A2 Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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