Recombinant Human CDK9&Cyclin K Kinase

Catalog No.: RP03319LQ

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Sequence Information

Species	Gene ID
Human	1025&8812

Swiss Prot	Tags
P50750&O75909	N-GST (CDK9) & N-Flag (Cyclin K)

Synonyms

CDK9; CDC2L4; TAK; Cyclin-dependent kinase 9; Cyclin K; CCNK; CPR4; Cyclin-K

Product Information

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

Calculated MW	Observed MW
69.3 kDa/36.9 kDa	60-70 kDa/30-40 kDa

Endotoxin

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

Formulation

Supplied as a 0.22 μm filtered solution in 20 mM HEPES, 200 mMNaCl, 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

CDK9 also known as cyclin-dependent kinase 9 is a member of the Ser/Thr protein kinase family. It was found to be a component of the multiprotein complex TAK/P-TEFb, which is an elongation factor for RNA polymerase II-directed transcription and functions by phosphorylating the C-terminal domain of the largest subunit of RNA polymerase II. CDK9 forms a complex with and is regulated by its regulatory subunit cyclin T or cyclin K. And HIV-1 Tat protein was found to interact with the CDK9/cyclin T complex, which suggested a possible involvement in AIDS. CDK9 is also known to associate with other proteins such as TRAF2, and be involved in differentiation of skeletal muscle.

Basic Information

Description

Recombinant Human CDK9&Cyclin K Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Phe372 (CDK9) & Met1-Ser300 (Cyclin K)) of Human CDK9&CCNK (Accession #P50750&O75909) fused with a N-GST (CDK9) & N-Flag (Cyclin K) tag.

Activity

The activity of CDK9/Cyclin K 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

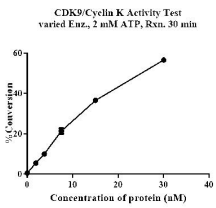
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

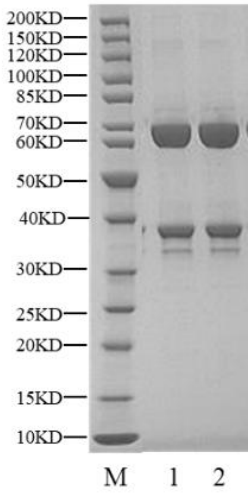
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



The activity of CDK9/Cyclin K 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 CDK9&Cyclin K Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.