Recombinant Human CDK12&Cyclin K Kinase

Catalog No.: RP03304LQ

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Sequence Information

Species	Gene ID
Human	51755&8812

Swiss Prot	Tags
Q9NYV4&O75909	N-GST (CDK12) & N-Flag (Cyclin K)

Synonyms

CDK12; CRK7; CRKRS; KIAA0904; Cyclin-dependent kinase 12; 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
71.4 kDa/36.9 kDa	65-75 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 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.

Background

CDK12 also known as cell cycle-dependent protein kinase 12 is a cell cycle-dependent protein kinase that functions as a transcription-related kinase. It forms a heterodimeric complex with Cyclin K, which phosphorylates the carboxyl-terminal domain of RNA polymerase II (RNA Pol II) to regulate gene expression. CDK12 is also the most frequently mutated of all CDKs, reaching up to 5%, and its genomic alterations have been identified in cancers, such as prostate cancer, breast cancer, and colorectal cancer.

Basic Information

Description

Recombinant Human CDK12&Cyclin K Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Gln696-Ser1082 (CDK12) & Met1-Ser300 (Cyclin K)) of Human CDK12&CCNK (Accession #Q9NYV4&O75909) fused with a N-GST (CDK12) & N-Flag (Cyclin K) tag.

Activity

The activity of CDK12/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

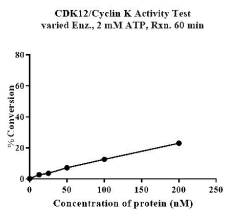
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

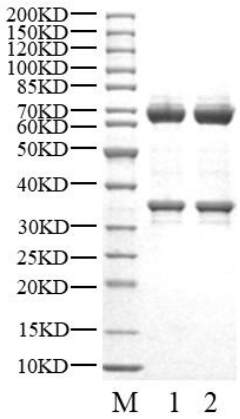
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



The activity of CDK12/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 CDK12&Cyclin K Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.