Recombinant Human CDK13&Cyclin K Kinase

Catalog No.: RP03305LQ

Sequence Information

Species	Gene ID
Human	8621&8812

Swiss Prot	Tags
Q14004&O75909	N-GST (CDK13) & N-Flag (Cyclin K)

Synonyms

CDK13; CDC2L; CDC2L5; CHED; KIAA1791; Cyclin-dependent kinase 13; 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
71.0 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 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

CDK13 also known as cyclin dependent kinase 13 is a member of the cyclin-dependent serine/threonine protein kinase family. It contains a C-terminal extension helix composed of a polybasic cluster and a DCHEL motif that interacts with the bound ATP. Cyclin K has been shown to interact with multiple CDKs including CDK9 and latest CDK12 and CDK13. Roles include helping to phosphorylate C-terminal domains of subunits of RNAP2. CDK13 /Cyclin K as the latest members of RNA polymerase II (RNA Pol II) C-terminal domain (CTD) kinases phosphorylates both Ser5 and Ser2 of the RNA Pol II CTD with a preference for Ser7 pre-phosphorylations at a C-terminal position.

Basic Information

Description

Recombinant Human CDK13&Cyclin K Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Gln673-Ser1054 (CDK13) & Met1-Ser300 (Cyclin K)) of Human CDK13&CCNK (Accession #Q14004&O75909) fused with a N-GST (CDK13) & N-Flag (Cyclin K) tag.

Activity

The activity of CDK13/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

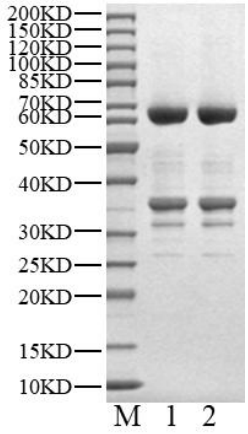
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

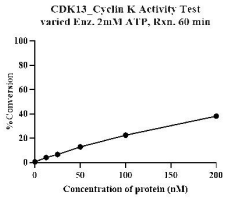
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Validation Data



Recombinant Human CDK13&Cyclin K Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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