Recombinant Human CDK18&Cyclin Y Kinase

Catalog No.: RP03308LQ

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Sequence Information

Species	Gene ID
Human	5129&219771

Swiss Prot	Tags
Q07002&Q8ND76	N-GST (CDK18) & N-Flag (Cyclin Y)

Synonyms

CDK18; PCTAIRE3; PCTK3; Cyclin-dependent kinase 18; Cyclin Y; CCNY; C10orf9; CBCP1; CFP1; Cyclin-Y

Product Information

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

Calculated MW	Observed MW
81.0 kDa/41.3 kDa	60-85 kDa/25-40 kDa

Endotoxin

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

Formulation

Supplied as a 0.22 μm filtered solution in 50 mM HEPES, 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

CDK18 belongs to the PCTAIRE family of CDKs, which include human CDK16, CDK17 and CDK18, all of which share a conserved PCTAIRE amino acid sequence in the helical α-C region of the kinase N-lobe. In mature tissues and cell lines, CDK18 predominantly localizes in the cytoplasm and at the plasma membrane, and it was shown to interact with cyclin A2 and displayed kinase activity, which is further controlled by PKA through Ser12 phosphorylation. CDK18 was first described as a neuronal kinase that phosphorylates TAU protein when overexpressed in human brain. It has multifaceted functions in human cancer and can act either as oncogene or as tumor suppressor, depending on the specific tumor type and context.

Basic Information

Description

Recombinant Human CDK18&Cyclin Y Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Phe474 (CDK18) & Met1-Ser341 (Cyclin Y)) of Human CDK18&CCNY (Accession #Q07002&Q8ND76) fused with a N-GST (CDK18) & N-Flag (Cyclin Y) tag.

Activity

The activity of CDK18/Cyclin Y 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

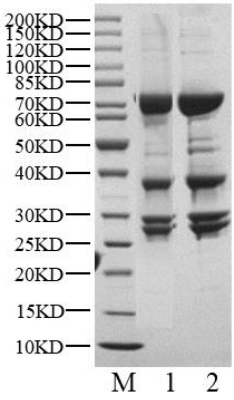
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

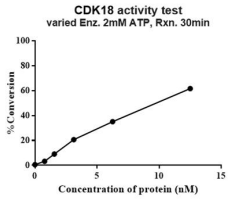
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Validation Data



Recombinant Human CDK18&Cyclin Y Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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