Recombinant Human CDK16&Cyclin Y Kinase

Catalog No.: RP03306LQ

Sequence Information

Species	Gene ID
Human	5127&219771

Swiss Prot	Tags
Q00536&Q8ND76	N-GST (CDK16) & N-Flag (Cyclin Y)

Synonyms

CDK16; PCTAIRE1; PCTK1; Cyclin-dependent kinase 16; 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
82.3 kDa/41.3 kDa	65-85 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, 200 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

CDK16 is also known as PCTGAIRE, PCTAIRE1, and PCTK1, and belongs to the cyclin-dependent serine/threonine protein kinase family. CDK16 plays important roles in various cellular processes. It regulates cell cycle including G1, S, G2, and G2/M arrest and control cell cycle through interactions with other molecules or signaling pathways. It also plays a vital role in cell growth and proliferation, particularly in cancer cells. And CDK16 was also shown to participate in many cell death pathways, including apoptosis, necrosis, autophagy, and senescence. Cyclin Y has been identified as a CDK16 binding partner in human cells, including various cancers. The binding of CCNY to CDK16 is essential for spermatogenesis.

Basic Information

Description

Recombinant Human CDK16&Cyclin Y Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Phe496 (CDK16) & Met1-Ser341 (Cyclin Y)) of Human CDK16&CCNY (Accession #Q00536&Q8ND76) fused with a N-GST (CDK16) & N-Flag (Cyclin Y) tag.

Activity

The activity of CDK16/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

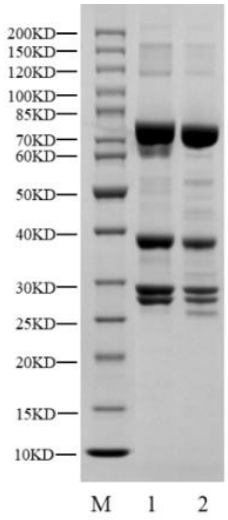
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

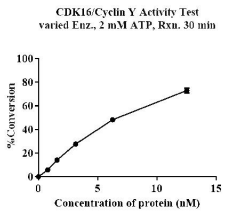
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Validation Data



Recombinant Human CDK16&Cyclin Y Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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