Recombinant Human CDK7&Cyclin H&MAT1 Kinase

Catalog No.: RP03318LQ

Sequence Information

Species
Human

Gene ID
1022&902&4331

Swiss Prot
P50613&P51946&P51948

Tags
N-GST (CDK7) & N-His-Flag (Cyclin H) & N-His-Flag (MAT1)

Synonyms
CDK7; CAK; CAK1; CDKN7; MO15; STK1; Cyclin-dependent kinase 7; Cyclin H; CCNH; Cyclin-H; MAT1; MNAT1; CAP35; RNF66; CDK-activating kinase assembly factor MAT1

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW
65.6 kDa/41.7 kDa/39.8 kDa

Observed MW
55-65 kDa/30-40 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

CDK7 also known as cyclin-dependent kinase 7 or cell division protein kinase 7 is a member of the Ser/Thr protein kinase family. It forms a trimeric complex with cyclin H and MAT1, which functions as a Cdk-activating kinase (CAK). It is an essential component of the transcription factor TFIIH, that is involved in transcription initiation and DNA repair. And CDK7 is thought to serve as a direct link between the regulation of transcription and the cell cycle.

Basic Information

Description
Recombinant Human CDK7&Cyclin H&MAT1 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Phe346 (CDK7) & Met1-Leu323 (Cyclin H) & Met1-Ser309 (MAT1)) of Human CDK7&CCNH&MNAT1 (Accession #P50613&P51946&P51948) fused with a N-GST (CDK7) & N-His-Flag (Cyclin H) & N-His-Flag (MAT1) tag.

Activity
The activity of CDK7/Cyclin H/MAT1 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℃

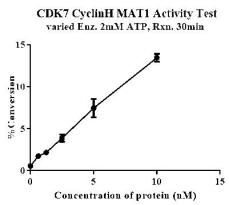
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

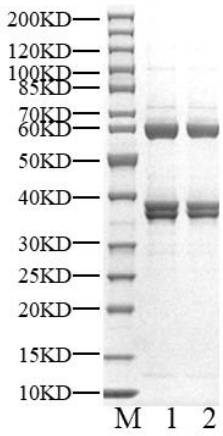
400-999-6126
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For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



The activity of CDK7/Cyclin H/MAT1 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 CDK7&Cyclin H&MAT1 Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.