

# Recombinant Human CDK7&Cyclin H&MAT1 Protein

Catalog No.: RP03318LQ **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	1022&902&4331	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	Purification
Baculovirus-Insect Cells	> 90% by SDS-PAGE and HPLC

Calculated MW	Observed MW
65.6 kDa/41.7 kDa/39.8 kDa	55-65 kDa/30-40 kDa/30-40 kDa

### Endotoxin

< 1.0 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.

## Contact

☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## 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 TFIIF, 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.

### Bio-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.

### Storage

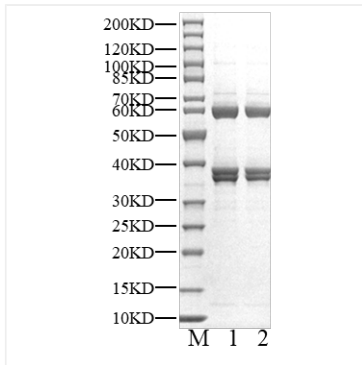
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

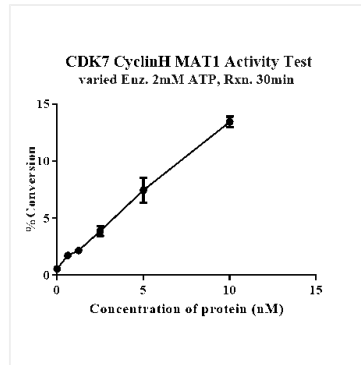
Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human CDK7&Cyclin H&MAT1 Protein was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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