

# Human CDK7 & CCNH & MNAT1 recombinant protein



Catalog Number: 504625

## General Information

### Protein Construction

A DNA sequence encoding the human CDK7 (P50613) (Ala 2-Phe 346) was fused with a polyhistidine tag at the N-terminus, constructed the plasmid 1; A DNA sequence encoding the human CCNH (P51946) (Tyr 2-Leu 323) was fused with a polyhistidine tag at the N-terminus, constructed the plasmid 2. A DNA sequence encoding the human MNAT1 (P51948) (Asp 2-Ser 309) was fused with a polyhistidine tag at the N-terminus, constructed the plasmid 3. The three plasmids were co-expressed and the heterotrimer was purified.

### Organism

Human

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Activity

The specific activity was determined to be 18 nmol/min/mg using MBP as substrate.

### Purity

> 85 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu$ g of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

His & His & His

## Molecular Mass

The recombinant heterotrimer of human CDK7/CCNH/MNAT1 comprises 1032 (364 + 341 + 327) amino acids and has a calculated molecular mass of 118.8 (41.2 + 39.7 + 37.9) kDa. The apparent molecular mass of rh CDK7/CCNH/MNAT1 heterotrimer is approximately 25,38 & 44 kDa respectively in SDS-PAGE under reducing conditions.

## Formulation

Supplied as sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

## Usage Guide

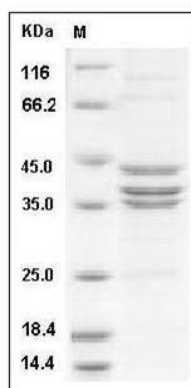
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

## Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

## SDS-PAGE



Human CDK7 & CCNH & MNAT1 Heterotrimer Protein SDS-PAGE