

## General Information

### Protein Construction

A DNA sequence encoding the human CDC2 (NP\_001777.1) (Met1-Met297) was expressed with a GST tag at the N-terminus, constructed the plasmid 1; A DNA sequence encoding the human CCNE1 (NP\_001229.1) (Met1-Ala410) was expressed with a polyhistidine tag at the N-terminus, constructed the plasmid 2. The two 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 150 nmol/min/mg using Histone H1 as substrate.

### Purity

> 90 % as determined by SDS-PAGE

### Endotoxin

<1.0 EU per µg 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

Met & His

### Molecular Mass

The recombinant heterotrimer of human CDC2 & CCNE1 comprises 950 (522+428) amino acids and has a calculated molecular mass of 109.7 (60.4+49.3) kDa.

### Formulation

Supplied as sterile 20 mM Tris, 500 mM NaCl, 2 mM GSH, 10 % glycerol, pH 8.0.

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

## Usage Guide

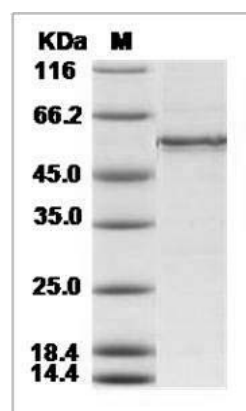
### Storage

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 CDC2 & CCNE1 Heterotrimer Protein  
SDS-PAGE