

# Human CDK7 & CCNH & MNAT1 Heterotrimer Insect Cell Lysate (WB positive control)



Sino Biological Inc.

Biological Solution Specialist

Catalog Number: CT020-H07BL

## CDK7 & CCNH & MNAT1 Heterotrimer Transfected / Overexpression Cell Lysate Product Information

**Expressed Host:** Baculovirus-Insect cells

**Products Description:** Baculovirus-Insect Cell lysate that Human CDK7 & CCNH & MNAT1 Heterotrimer transfected / overexpressed for Western blot (WB) positive control. The whole cell lysate is provided in 1X Sample Buffer (1X modified RIPA buffer+1X SDS loading buffer).

**Sequence information:** 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.

**Predicted N Terminal:** His & His & His

**Molecule 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.

**Species:** Human

## CDK7 & CCNH & MNAT1 Heterotrimer Transfected / Overexpression Cell Lysate Usage Guide

**Preparation Method:** Cell lysate was prepared by homogenization in ice-cold modified RIPA Lysis Buffer with cocktail of protease inhibitors (Sigma). Cell debris was removed by centrifugation. Protein concentration was determined by Bradford assay (Bio-Rad protein assay, Microplate Standard assay). The cell lysate was boiled for 5 min in 1 x SDS loading buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.

**Lysis Buffer:** Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF.

**Quality Control Testing:** 12.5% SDS-PAGE Stained with Coomassie Blue after protein purification.

**Stability:** Samples are stable for up to twelve months from date of receipt.

**Recommend Usage:**

1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube.
2. Re-dissolve the pellet using 200 $\mu$ L pure water and boil for 2-5 min.
3. Store the lyophilized cell lysate at 4°C. After re-dissolution, recommend to aliquot it into smaller quantities and store at -80°C.

**Storage Buffer:** 1 X Sample Buffer (1 X modified RIPA buffer+1 X SDS loading buffer).

**Storage Instruction:** Store at 4°C. After re-dissolution, aliquot and store at -80°C.

**Application notes:** Western blot (WB): Use at an assay dependent dilution.

Other Applications: Not tested.

Optimal dilutions/concentrations should be determined by the end user.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

For US Customer: Fax: 267-657-0217 • Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>