

## CDK7/CyclinH1/MNAT1 Recombinant Protein | CDK7 recombinant protein

CDK7/CyclinH1/MNAT1, Active

|                              |                                 |                                     |
|------------------------------|---------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA73357</b> | HOST<br><b>Sf9 insect cells</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|---------------------------------|-------------------------------------|

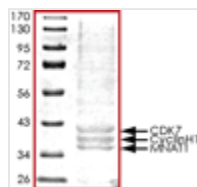
### PRODUCT SYNONYMS

CDK7/CyclinH1/MNAT1; Active; CDK7: CAK1; STK1; CDKN7; p39MO15 Cyclin H1: CCNH; CAK; p34; p37 MNAT1: MAT1; RNF66; CDK7 recombinant protein

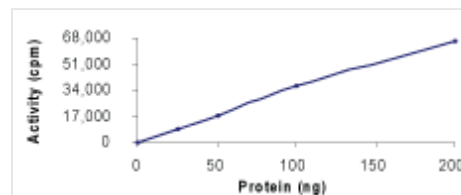
### PRODUCT SPECIFICATIONS

|                                                      |                                                                                                                                                                                                                                                |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                 | Sf9 insect cells                                                                                                                                                                                                                               |
| Form/Format                                          | Recombinant protein stored in 50mM sodium phosphate, pH7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.                                                                                                                 |
| Applicable Applications for CDK7 recombinant protein | WB (Western Blot), Kinase Assay                                                                                                                                                                                                                |
| Tag                                                  | HIS                                                                                                                                                                                                                                            |
| Species                                              | Human                                                                                                                                                                                                                                          |
| Dry Ice Note                                         | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                             |
| Preparation and Storage                              | Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

### IMAGES


**SDS-PAGE**

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.


**Activity**

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

### ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CDK7 recombinant protein | <p>Recombinant full-length human CDK7, Cyclin H1 and MNAT1 were co-expressed by baculovirus in Sf9 insect cells using an N-terminal His tags. The gene accession number for CDK7, Cyclin H1 and MNAT1 are NM_001799, NM_001239, and NM_002431 respectively.</p> <p>CDK7 gene is a member of the cyclin-dependent protein kinase family that is important regulators of cell cycle progression (1). CDK7 forms a trimeric complex with cyclin H and MAT1, which functions as a CDK-activating kinase (CAK). CDK7 is an essential component of the transcription factor TFIIF that is involved in transcription initiation and DNA repair. CDK7 is thought to serve as a direct link between the regulation of transcription and the cell cycle (2).</p> |
| Product Categories/Family for CDK7 recombinant protein   | Protein Kinases; Cancer; Cell Cycle; Ser/Thr Kinases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## References

1. Fisher, R. P.; A novel cyclin associates with MO15/CDK7 to form the CDK-activating kinase. Cell 78: 713-724, 1994.
2. Larochelle, S. Requirements for Cdk7 in the assembly of Cdk1/cyclin B and activation of Cdk2 revealed by chemical genetics in human cells. Molec. Cell 25: 839-850, 2007.

## NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM\\_001799](#)

Molecular Weight

~40kDa, Cyclin H1 ~39kDa, and MNAT1 ~37kDa

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/cdk7/cyclinh1/mnat1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73357>