

# Recombinant human CDK7 + Cyclin H + MNAT1 protein ab64303

**2 References**   **5 图像**

### 描述

产品名称	重组人CDK7 + Cyclin H + MNAT1蛋白
生物活性	Specific activity: 19 nmol/min/mg.
纯度	> 90 % SDS-PAGE. Affinity purified.
表达系统	Baculovirus infected Sf9 cells
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human

### 技术指标

Our **Abpromise guarantee** covers the use of **ab64303** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	SDS-PAGE Functional Studies
形式	Liquid
补充说明	<b>ab64311</b> (Myelin Basic Protein protein) can be utilized as a substrate for assessing kinase activity

### 制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.00 Preservative: 1.02% Imidazole Constituents: 0.00174% PMSF, 0.82% Sodium phosphate, 0.00308% DTT, 25% Glycerol (glycerin, glycerine), 1.74% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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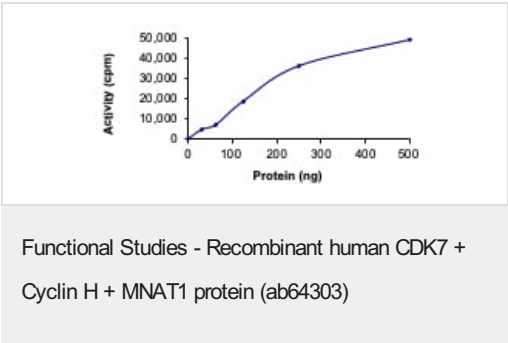
常规信息

**相关性**

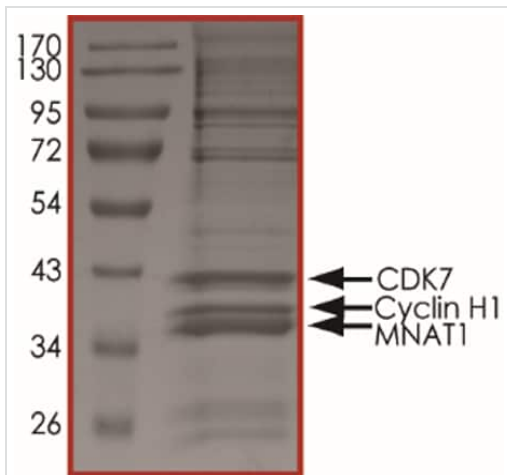
CDK7: Cyclin-dependent kinases (CDKs) are activated by the binding to a cyclin and mediate the progression through the cell cycle. Each different complex controls a specific transition between two subsequent phases in the cell cycle. CDK7 is the catalytic subunit of the CDK-activating kinase (CAK) complex, a serine-threonine kinase. CAK activates the cyclin-associated kinases CDC2/CDK1, CDK2, CDK4 and CDK6 by threonine phosphorylation. CAK complexed to the core-TFIH basal transcription factor activates RNA polymerase II by serine phosphorylation of the repetitive C-terminus domain (CTD) of its large subunit (POLR2A), allowing its escape from the promoter and elongation of the transcripts. Involved in cell cycle control and in RNA transcription by RNA polymerase II. Its expression and activity are constant throughout the cell cycle. Cyclin H: Regulates CDK7, the catalytic subunit of the CDK-activating kinase (CAK) enzymatic complex. CAK activates the cyclin-associated kinases CDC2/CDK1, CDK2, CDK4 and CDK6 by threonine phosphorylation. CAK complexed to the core-TFIH basal transcription factor activates RNA polymerase II by serine phosphorylation of the repetitive C-terminus domain (CTD) of its large subunit (POLR2A), allowing its escape from the promoter and elongation of the transcripts. Involved in cell cycle control and in RNA transcription by RNA polymerase II. Its expression and activity are constant throughout the cell cycle. MNAT1: Stabilizes the cyclin H-CDK7 complex to form a functional CDK-activating kinase (CAK) enzymatic complex. CAK activates the cyclin-associated kinases CDC2/CDK1, CDK2, CDK4 and CDK6 by threonine phosphorylation. CAK complexed to the core-TFIH basal transcription factor activates RNA polymerase II by serine phosphorylation of the repetitive C-terminus domain (CTD) of its large subunit (POLR2A), allowing its escape from the promoter and elongation of the transcripts. Involved in cell cycle control and in RNA transcription by RNA polymerase II.

**细胞定位** Nuclear

图片

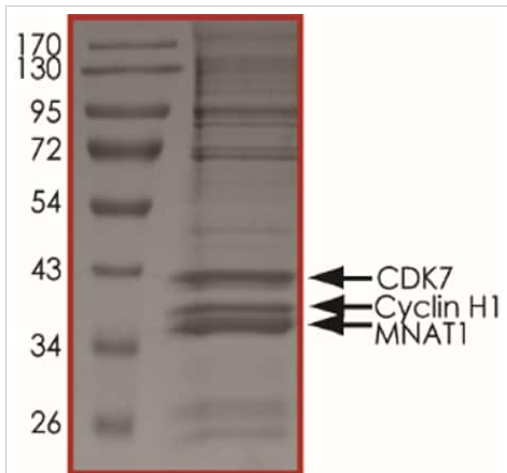


The specific activity of CDK7 + Cyclin H + MNAT1 (ab64303) was determined to be 20 nmol/min/mg as per activity assay protocol



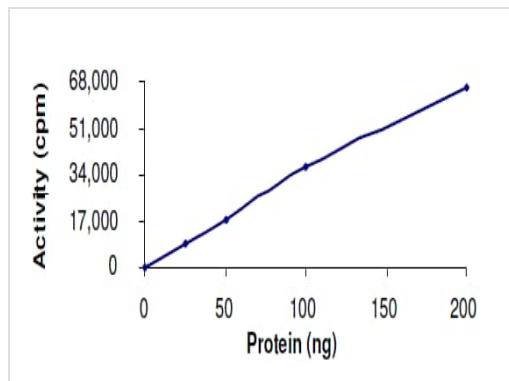
SDS PAGE analysis of ab64303

SDS-PAGE - Recombinant human CDK7 + Cyclin H  
+ MNAT1 protein (ab64303)



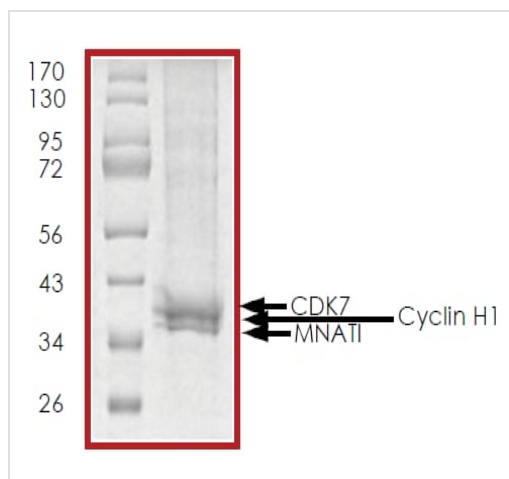
SDS PAGE analysis of ab64303

SDS-PAGE - Recombinant human CDK7 + Cyclin H  
+ MNAT1 protein (ab64303)



The specific activity of CDK7 + Cyclin H + MNAT1 (ab64303) was determined to be 19nmol/min/mg as per activity assay protocol.

Functional Studies - Recombinant human CDK7 + Cyclin H + MNAT1 protein (ab64303)



SDS-PAGE analysis of ab64303. The purity of CDK7 + Cyclin H + MNAT1 (ab64303) was determined to be >90% by densitometry, CDK7 approx. MW 40kDa, CyclinH1 approx. MW 39kDa and MNAT1 approx. MW 37kDa

SDS-PAGE - Recombinant human CDK7 + Cyclin H + MNAT1 protein (ab64303)

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