

Recombinant Human CDK7/CCNH/MNAT1, His-tagged, Active

CDK7/CCNH/MNAT1-279H Human

Lot. No. (See product label)

Specification

Product Overview

Recombinant human full-length CDK7, Cyclin H1 and MNAT1 were co-expressed by baculovirus in *Sf9* insect cells using N-terminal His tags. MW=40kDa, Cyclin H1 ~39kDa, and MNAT1 ~37kDa.

Description

CDK7 gene is a member of the cyclin-dependent protein kinase family that is important regulators of cell cycle progression. 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 TFIIH 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.

Source

Sf9 insect cells using baculovirus.

Sequence

Full-length.

Applications

Kinase Assay, Western Blot.

Storage And Stability

Store product at -70°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.

Gene Information

Gene Name

[CDK7 cyclin-dependent kinase 7 \[Homo sapiens \]](#), [CCNH cyclin H \[Homo sapiens \]](#), [MNAT1 menage a trois homolog 1, cyclin H assembly factor \(Xenopus laevis\) \[Homo sapiens \]](#)

Synonyms

CDK7; cyclin-dependent kinase 7; CAK1; MO15; STK1; CDKN7; p39MO15; cyclin-dependent kinase 7 (homolog of Xenopus MO15 cdk-activating kinase); cyclin-dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk-activating kinase); Cell division protein kinase 7;
 2.7.11.22;
 2.7.11.23; CDK-activating kinase; TFIIH basal transcription factor complex kinase subunit; 39 kDa protein kinase; P39 Mo15; CCNH; cyclin H; CAK; p34; p37; CDK-activating kinase; cyclin-dependent kinase-activating kinase; MO15-associated protein; Cyclin-H; MNAT1; menage a trois homolog 1, cyclin H assembly factor (Xenopus laevis); MAT1; TFB3; RNF66; menage a trois 1 (CAK assembly factor); CDK-activating kinase assembly factor MAT1; CDK7/cyclin H assembly factor; p35; p36; RING finger protein 66; Cyclin G1-interacting protein

Gene ID

[1022,902,4331](#)

mRNA Refseq

[NM_001799](#), [NM_001239](#), [NM_002431](#)

Protein Refseq

[NP_001790](#), [NP_001230](#), [NP_002422](#)

UniProt ID

[P50613](#), [P51946](#), [P51948](#)

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Chromosome Location 5q12.1, 5q13.3-q14, 14q23

MIM [601955](#),[601953](#),[602659](#)

Pathway Cell cycle; Cell Cycle, Mitotic; Nucleotide excision repair; DNA Repair; Gene Expression; HIV Infection; Transcription; mRNA Processing

Function ATP binding; DNA-dependent ATPase activity ; RNA polymerase II carboxy-terminal domain kinase activity ; androgen receptor binding; protein C-terminus binding; transcription coactivator activity; cyclin-dependent protein kinase activity; nucleotide binding; transferase activity; protein N-terminus binding; zinc ion binding

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