

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

Cat. No. CDK7/CCNH/MNAT1-279H 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.
Species	Human
Source	Sf9 Cells
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.
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

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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;EC2.7.11.22;EC2.7.11.23; 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
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

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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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