

Active Recombinant Human CDK7 Protein, GST-His-Tagged

Cat. No. CDK7-1035H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CDK7 (NM_001799, 1 a.a. - 346a.a.) and CCNH (NM_001239, 1 a.a. - 323 a.a.) and MNAT1 (NM_002431, 1 a.a. a.a. - 309 a.a.) recombinant protein with GST-His tag expressed in Sf9 cells.
Species	Human
Source	Insect Cells
ProteinLength	1-346;1-323;1-309 a.a.
Description	The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of <i>Saccharomyces cerevisiae</i> cdc28, and <i>Schizosaccharomyces pombe</i> cdc2, and are known to be important regulators of cell cycle progression. This protein forms a trimeric complex with cyclin H and MAT1, which functions as a Cdk-activating kinase (CAK). It is an essential component of the transcription factor TFIIH, that is involved in transcription initiation and DNA repair. This protein is thought to serve as a direct link between the regulation of transcription and the cell cycle. [provided by RefSeq, Jul 2008]
Form	Liquid
Bio-activity	22 pmol/μg x min
Molecular Mass	CDK7: 68.934, CCNH: kDa

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Applications	Functional Study SDS-PAGE
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing
Concentration	0.139 µg/µL
Storage Buffer	In 50 mM Tris-HCl, 100 mM NaCl, pH 8.0. (5 mM DTT, 4 mM reduced glutathione, 20% glycerol)
GENE INFORMATION	
Gene Name	CDK7 cyclin-dependent kinase 7 [Homo sapiens]
Official Symbol	CDK7
Synonyms	CDK7; cyclin-dependent kinase 7; cyclin dependent kinase 7 (homolog of Xenopus MO15 cdk activating kinase), cyclin dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk activating kinase); CAK; CAK1; CDKN7; MO15; STK1; p39 Mo15; protein kinase; 39 KDa protein kinase; kinase subunit of CAK; CDK-activating kinase 1; serine/threonine kinase stk1; cell division protein kinase 7; serine/threonine protein kinase 1; serine/threonine-protein kinase 1; serine/threonine protein kinase MO15; homolog of Xenopus MO15 Cdk-activating kinase; TFIIH basal transcription factor complex kinase subunit; cyclin-dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk-activating kinase); HCAK; p39MO15;
Gene ID	1022
mRNA Refseq	NM_001799
Protein Refseq	NP_001790

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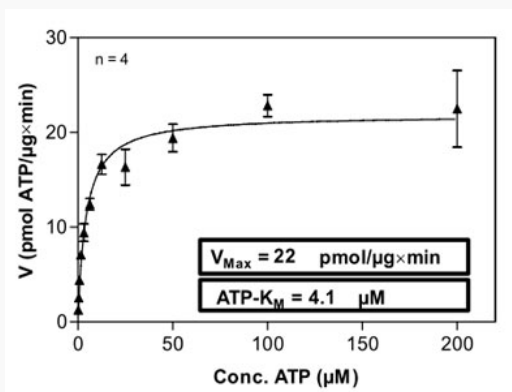
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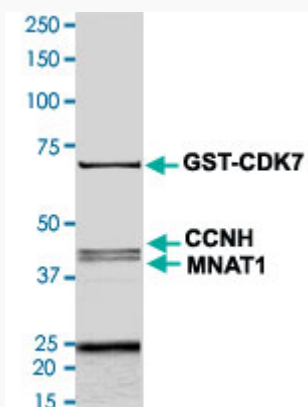
MIM 601955

UniProt ID P50613

Result of activity analysis



Quality Control Testing



2 μg/lane SDS-PAGE Stained with Coomassie Blue

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