

CDK7 recombinant protein

CDK7, Unactive recombinant protein

CATALOG # AAA72924	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

CDK7; Unactive recombinant protein; CDK7: CAK1; STK1; CDKN7; p39MO15; CDK7 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	95%
Form/Format	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Concentration	0.1ug/ul (varies by lot)
Sequence Length	1534
Applicable Applications for CDK7 recombinant protein	WB (Western Blot), Kinase Assay
Type	Recombinant Fusion Protein
Species	Human
Tag Information	GST tag
Expression System	Sf9 insect cells using baculovirus
Source Note	Recombinant full-length human CDK7 was expressed by baculovirus in Sf9 insect cells
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. Stability: 1 yr at -70 degree C from date of shipment.

IMAGES



SDS-PAGE

The purity of CDK7 was determined to be >95% by densitometry.

ADDITIONAL INFORMATION

Related Product Information for CDK7 recombinant protein	Recombinant full-length human CDK7 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tags. Scientific Background: 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).
Product Categories/Family for CDK7 recombinant protein	Unactive Kinase ; Signaling Proteins - Unactive 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 GI #	161016768
NCBI GeneID	1022
NCBI Accession #	NP_001790.1
NCBI GenBank Nucleotide #	NM_001799
UniProt Accession #	P50613 ; Q9BS60 ; Q9UE19
Molecular Weight	~66 kDa
NCBI Official Full Name	Homo sapiens cyclin-dependent kinase 7 (CDK7), mRNA
NCBI Official Synonym Full Names	cyclin-dependent kinase 7
NCBI Official Symbol	CDK7
NCBI Official Synonym Symbols	CAK1; HCAK; MO15; STK1; CDKN7; p39MO15
NCBI Protein Information	cyclin-dependent kinase 7; CAK; 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; TFIIF basal transcription factor complex kinase subunit; cyclin-dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk-activating kinase)
UniProt Protein Name	Cyclin-dependent kinase 7
UniProt Gene Name	CDK7
UniProt Synonym Gene Names	CAK; CAK1; CDKN7; MO15; STK1; p39 Mo15
UniProt Entry Name	CDK7_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/cdk7-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/72924>