

# Recombinant Full Length Human CDK7 Protein, C-Flag-tagged

Cat. No. CDK7-939HFL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human CDK7 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	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 cdc28</i> , and <i>Schizosaccharomyces pombe cdc2</i> , 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 TFIIF, 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.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	38.9 kDa
<b>AA Sequence</b>	MALDVKSRAKRYEKLDLFLGEGQFATVYKARDKNTNQIVAIAKKIKLGHHRSEAKDGINRT ALREIKLLQELS HPNIIGLLDAFGHKSNISLVDFMETDLEVIKDNSLVLTTPSHIKAYML MTLQGLEYLHRHWILHRDLKP NLLLLDENGVLKLADFLAKSFGSPNRAYTHQVVT RWYRAPELLFGARMYGVGVDMWAVGCILAEALLRV PFLPGDSDLQLTRIFETLGT PTEEQWPDMCSLPDYVTFKSFPGIPLHHIFSAAGDLLLLLIQGLFLFNP CARITATQA

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LKMKYFSNRPGPTPGCQLPRPNCPVETLKEQSNPALAIKRKRTEALEQGGLPKKLIF  
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Druggable Genome, Protein Kinase, Stem cell - Pluripotency, Transcription Factors
<b>Protein Pathways</b>	Cell cycle, Nucleotide excision repair
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	CDK7 cyclin dependent kinase 7 [ Homo sapiens (human) ]
<b>Official Symbol</b>	CDK7
<b>Synonyms</b>	CAK; CAK1; HCAK; MO15; STK1; CDKN7; p39MO15
<b>Gene ID</b>	1022

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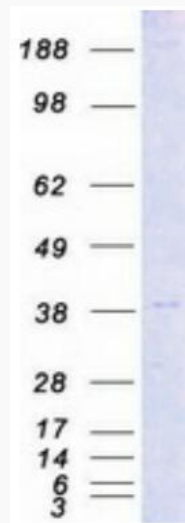
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mRNA Refseq [NM\\_001799.4](#)

Protein Refseq [NP\\_001790.1](#)

MIM [601955](#)

UniProt ID [P50613](#)



Coomassie blue staining of purified CDK7 protein.

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