

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

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

SPECIFICATION

Product Overview	Recombinant Full Length Human CDK7 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	38.9 kDa
AA Sequence	MALDVKSRAKRYEKLDLFLGEGQFATVYKARDKNTNQIVAIAKKIKLGHRSSEAKDGINRT ALREIKLLQELS HPNIIGLLDAFGHKSNISLVDFMETDLEVIKDNSLVLTTPSHIKAYML MTLQGLEYLHRHWILHRDLKP NNLLLDENGVLKLADFGLAKSFGSPNRAYTHQVVT RWYRAPELLFGARMYGVGVDMWAVGCILAEALLRV PFLPGDSDLDQLTRIFETLGT PTEEQWPDMCSLPDYVTFKSFPGLHHIFSAAGDDLDDLIQGLFLFNP CARITATQA

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	LKMKYFSNRPGPTPGCQLPRPNCPVETLKEQSNPALAIKRKRTEALEQGGLPKKLIF TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase, Stem cell - Pluripotency, Transcription Factors
Protein Pathways	Cell cycle, Nucleotide excision repair
Full Length	Full L.
GENE INFORMATION	
Gene Name	CDK7 cyclin dependent kinase 7 [Homo sapiens (human)]
Official Symbol	CDK7
Synonyms	CAK; CAK1; HCAK; MO15; STK1; CDKN7; p39MO15
Gene ID	1022

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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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