Active Recombinant Human CDK7/CCNH protein, His-tagged

Cat. No. CDK7-CCNH-313H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CDK7 and CCNH were co-expressed by baculovirus in Sf9 insect cells using an N-terminal His tags.
Species	Human
Source	Insect 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.
Form	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol
Bio-activity	The specific activity of CDK7/CyclinH1 was determined to be 56nmol/min/mg as per activity protocol.
Molecular Mass	CDK7 ~41~43 kDa, and CCNH ~39 kDa
Purity	The purity of CDK7/CCNH was determined to be >70% by densitometry.
Applications	Kinase Assay; WB

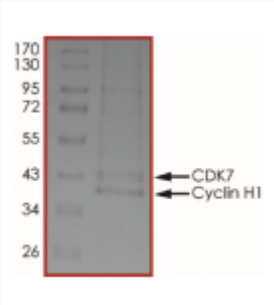
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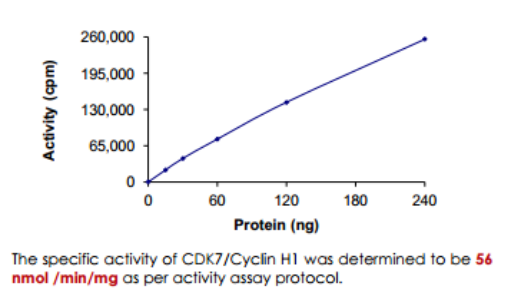
Stability	1 year at -70 centigrade
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 μg/μL

GENE INFORMATION

Gene Name	cyclin dependent kinase 7 [Homo sapiens (human)]; cyclin H [Homo sapiens (human)]
Official Symbol	CDK7; CCNH
Synonyms	CAK; CAK1; HCAK; MO15; STK1; CDKN7; P39mo15; Cyclin H1; CCNH; CAK; p34; p37
Gene ID	1022; 902
mRNA Refseq	NM_001799; NM_001239
Protein Refseq	NP_001790.1; NP_001230.1
MIM	601955; 601953
UniProt ID	P50613; P51946

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