

Recombinant Human CDK7 & CCNH & MNAT1 cell lysate

Cat. No. CDK7 & CCNH & MNAT1-539HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CDK7 & CCNH & MNAT1 Heterotrimer derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Human
Source	Insect Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on

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	SDS-PAGE for Western blot application. If dissociating conditions are required, add reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage Buffer	50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Storage Instruction	Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.
GENE INFORMATION	
Gene Name	CDK7 cyclin-dependent kinase 7 [Homo sapiens]; CCNH cyclin H [Homo sapiens]; MNAT1 MNAT CDK-activating kinase assembly factor 1 [Homo sapiens]
Official Symbol	CDK7 & CCNH & MNAT1
Synonyms	CAK1; HCAK; MO15; STK1; CDKN7; p39MO15; 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; TFIIH basal transcription factor complex kinase subunit; cyclin-dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk-activating kinase); CAK; p34; p37; Cych; cyclin-H; CAK complex subunit; MO15-associated protein; CDK-activating kinase complex subunit; cyclin-dependent kinase-activating kinase complex subunit; MAT1; TFB3; CAP35; RNF66; CDK-activating kinase assembly factor MAT1; RING finger protein 66; RING finger protein MAT1; CDK7/cyclin-H assembly factor; cyclin G1 interacting

	protein; cyclin-G1-interacting protein; menage a trois 1 (CAK assembly factor); menage a trois homolog 1, cyclin H assembly factor
Gene ID	1022; 902; 4331
mRNA Refseq	NM_001799; NM_001199189; NM_001177963
Protein Refseq	NP_001790; NP_001186118; NP_001171434
MIM	601955; 601953; 602659
UniProt ID	P50613; P51948
Chromosome Location	5q12.1; 5q13.3-q14; 14q23
Pathway	B Cell Receptor Signaling Pathway, organism-specific biosystem; Cyclin A/B1 associated events during G2/M transition, organism-specific biosystem; DNA Repair, organism-specific biosystem. Basal transcription factors, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cyclin A/B1 associated events during G2/M transition, organism-specific biosystem; Basal transcription factors, organism-specific biosystem; Cyclin E associated events during G1/S transition, organism-specific biosystem
Function	ATP binding; cyclin-dependent protein serine/threonine kinase activity; contributes_to DNA-dependent ATPase activity; contributes_to RNA polymerase II carboxy-terminal domain kinase activity; protein binding. contributes_to DNA-dependent ATPase activity; protein binding