Active Recombinant Human CDK8/CCNC, GST&His-tagged

Cat. No. CDK8/CCNC-256H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Coexpression of human CDK8, amino acids M1-Y464 (as in GenBank entry NM_001260), N-terminal GST-HIS6 fusion protein with a Thrombin cleavage site and human CycC, amino acids M1-S283 (as in GenBank entry NM_005190.3), N-terminally fused to HIS6-Thrombincleavage site.
Species	Human
Source	Sf9 Cells
ProteinLength	1-464;1-283 a.a.
Description	The Cdks are serine/threonine protein kinases which are predominantly involved in the progression of the cell cycle. Subsequently, CDK-cyclin complexes (CDK7, CDK8 and CDK9) were also identified as regulators of transcription. CDK8/CycC is part of the RNA polymerase II holoenzyme complex and phosphorylates the carboxy-terminal domain (CTD) of the largest subunit of RNA polymerase II. On the other hand, CDK8/CycC phosphorylates cyclin H, a component of the CDK activating kinase (CAK), and represses activated transcription by modulation of TFIIH activity.
Bio-activity	17.000 pmol/mg x min
Molecular Mass	Theoretical MW MW GST-CDK8: 83.0 kDaTheoretical MW His-CyC: 38.0 kDa
Concentration	0.43 mg/ml (Bradford method using BSA as standard protein)

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Storage Buffer	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 20% glycerol

GENE INFORMATION

Gene Name	CDK8 cyclin-dependent kinase 8 [Homo sapiens (human)]
Official Symbol	CDK8
Synonyms	cyclin-dependent kinase 8; K35; MGC126074; MGC126075; protein kinase K35; CDK8 protein kinase; cell division protein kinase 8; EC 2.7.11.22,EC 2.7.11.23; Protein kinase K35; CDK8; OTTHUMP00000018158; Mediator complex subunit CDK8; Mediator of RNA polymerase II transcription subunit CDK8
Gene ID	1024
mRNA Refseq	NM_001260
Protein Refseq	NP_001251
MIM	603184
UniProt ID	P49336
Chromosome Location	13q12
Pathway	Constitutive Signaling by NOTCH1 HD+PEST Domain Mutants; Developmental Biology; FBXW7 Mutants and NOTCH1 in Cancer
Function	ATP binding; RNA polymerase II carboxy-terminal domain kinase activity; cyclin-dependent protein serine/threonine kinase activity

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