

CDK8 recombinant protein

CDK8, Unactive recombinant protein

CATALOG # AAA72888	HOST Sf9 insect cells	APPLICATIONS Western Blot
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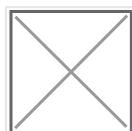
PRODUCT SYNONYMS

CDK8; Unactive recombinant protein; K35; MGC126074; MGC126075; Unactive; CDK8 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	The purity was determined to be >80% by densitometry.
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Concentration	0.2ug/ul (varies by lot)
Sequence Length	1464
Applicable Applications for CDK8 recombinant protein	WB (Western Blot), Kinase Assay
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. 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. Shipping: Ships with Dry Ice.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CDK8 recombinant protein	Recombinant full-length human CDK8 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: CDK8 is a member of the CDK family which are important regulators of cell cycle progression. CDK8 associates with Cyclin C and is a component of the RNA polymerase II holoenzyme complex that phosphorylates the carboxy-terminal domain (CTD) of the largest subunit of RNA polymerase II (1). CDK8 regulate transcription by targeting the CDK7/cyclin H subunits of the general transcription initiation factor IIH (TFIIH). Inhibition of CDK8 expression inhibits proliferation in colon cancer cells characterized by high levels of CDK8 and beta-catenin hyperactivity. CDK8 kinase activity is necessary for beta-catenin-driven transformation and for expression of several beta-catenin transcriptional targets (2).
Product Categories/Family for CDK8 recombinant protein	Unactive Kinase; Signaling Proteins - Unactive Kinases

References	1.Akoulitchev S, et al: TFIIH is negatively regulated by cdk8-containing mediator complexes. Nature 407: 102-106, 2000. 2.Firestein R, et al: CDK8 is a colorectal cancer oncogene that regulates beta-catenin activity. Nature 455: 547-551, 2008.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	47479675
NCBI GeneID	1024
UniProt Accession #	P49336; Q5VUF3; Q6ISB5
Molecular Weight	~84 kDa
NCBI Official Full Name	Homo sapiens cyclin-dependent kinase 8, mRNA
NCBI Official Synonym Full Names	cyclin-dependent kinase 8
NCBI Official Symbol	CDK8
NCBI Official Synonym Symbols	K35
NCBI Protein Information	cyclin-dependent kinase 8; protein kinase K35; CDK8 protein kinase; mediator complex subunit CDK8; cell division protein kinase 8; mediator of RNA polymerase II transcription subunit CDK8
UniProt Protein Name	Cyclin-dependent kinase 8
UniProt Gene Name	CDK8
UniProt Entry Name	CDK8_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.