

Recombinant Human CDK8, GST-tagged

Cat. No. CDK8-11H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDK8(1 a.a. - 464 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
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 kinase and its regulatory subunit cyclin C are components of the RNA polymerase II holoenzyme complex, which phosphorylates the carboxy-terminal domain (CTD) of the largest subunit of RNA polymerase II. This kinase has also been shown to regulate transcription by targeting the CDK7/cyclin H subunits of the general transcription initiation factor IIH (TFIIH), thus providing a link between the 'Mediator-like' protein complexes and the basal transcription machinery.
Molecular Mass	79.7 kDa
AA Sequence	MDYDFKVKLSSERERVELFEYEGCKVGRGTYGHVYKAKRKDGKDDKDYALKQIE GTGISMSACREIALLRELKH PNVISLQKVFLSHADRKVWLLFDYAEHDLWHIIKFHRA SKANKKPVQLPRGMVKSLLYQILDGIHYLHANWVLHR DLKPANILVMGEGPERGRV KIADMGFARLFNSPLKPLADLDPVVVTFWYRAPELLLGARHYTKAIDIWAIGCIFA ELL

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TSEPIFHCRQEDIKTSNPYHHDQLDRIFNVMGFPADKDWEDIKKMPEHSTLMKDFRR
 NTYTNCSLIKYMEKH KVKPDSKAFHLLQKLLTMDPIKRITSEQAMQDPYFLEDPLPTS
 DVFAGCQIPYPKREFLTEEEPDDKGDKKNQQQ QQGNNHTNGTGHPGNQDSSHTQ
 GPPLKKVRVVPPTTTSGGLIMTSDYQRSNPHAAYPNPGPSTSQPQSSMGYSAT SQ
 QPPQYSHQTHRY

Applications ELISA; WB-Re; AP; Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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MIM	603184
UniProt ID	P49336
Chromosome Location	13q12
Pathway	Constitutive Signaling by NOTCH1 HD+PEST Domain Mutants; Developmental Biology; Fatty acid, triacylglycerol, and ketone body metabolism
Function	ATP binding; RNA polymerase II carboxy-terminal domain kinase activity; cyclin-dependent protein serine/threonine kinase activity; protein binding

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