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 Saccharomyces cerevisiae cdc28, and Schizosaccharomyces pombe 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	MDYDFKVKLSSERERVEDLFEYEGCKVGRGTYGHVYKAKRKDGKDDKDYALKQIE GTGISMSACREIALLRELKH PNVISLQKVFLSHADRKVWLLFDYAEHDLWHIIKFHRA SKANKKPVQLPRGMVKSLLYQILDGIHYLHANWVLHR DLKPANILVMGEGPERGRV KIADMGFARLFNSPLKPLADLDPVVVTFWYRAPELLLGARHYTKAIDIWAIGCIFA ELL

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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 -80ºC. 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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