

Recombinant Full Length Human CDK8 Protein, GST-tagged

Cat. No. CDK8-6878HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length Human CDK8(1 a.a. - 464 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	464 amino acids
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 cdc28</i> , and <i>Schizosaccharomyces pombe cdc2</i> , 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	MDYDFKVKLSSSERERVEDLFEYEGCKVGRGTYGHVYKAKRKDGKDDKDYALKQIE GTGISM SACREIAL LRELKH PNVISLQKVFLSHADRKVWLLFDYAEHDLWHI IKFHRA SKANKKPVQLPRGMVKSLLYQILDGIHYLHANWVLHR DLKPANILVMGEGPERGRV

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KIADMGFARLFNSPLKPLADLDPVVVTFWYRAPELLLGARHYTKAIDIWAIGCIFA ELL
TSEPIFHCQRQEDIKTSNPYHHDQLDRIFNVMGFPADKDWEDIKKMPEHSTLMKDFRR
NTYTNCSLIKYMEKH KVKPDSKAFHLLQKLLTMDPIKRITSEQAMQDPYFLEDPLPTS
DVFAGCQIPYPKREFLTEEEPDDKGDKKNQQQ QQGNNHTNGTGHPGNQDSSHTQ
GPPLKKVRVVPPTTTSGGLIMTSDYQRSNPAAYPNPGPSTSQPQSSMGYSAT 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 centigrade. 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
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UniProt ID	P49336
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