

Active Recombinant Human CDK8 Protein, GST-Tagged

Cat. No. CDK8-1038H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CDK8 (NP_001251.1, 1 a.a. - 464 a.a.) and CCNC (NP_005181.2, 1 a.a. - 283 a.a.) full-length recombinant protein with with GST tag expressed in baculovirus infected Sf21 cells.
Species	Human
Source	Insect Cells
Description	This gene encodes a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are known to be important regulators of cell cycle progression. This kinase and its regulatory subunit, cyclin C, are components of the Mediator transcriptional regulatory complex, involved in both transcriptional activation and repression by phosphorylation of the carboxy-terminal domain of the largest subunit of RNA polymerase II. This kinase regulates transcription by targeting the cyclin-dependent kinase 7 subunits of the general transcription initiation factor IIH, thus providing a link between the Mediator complex and the basal transcription machinery. Multiple pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2016]
Form	Liquid
Bio-activity	The activity was determined by ELISA. The enzyme was incubated with biotinylated substrate protein, and after stopping kinase reaction by EDTA, the reaction solution was transferred into streptavidin- coated plate. Phosphorylation was detected by anti-

 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

	phospho antibody and HRP-labeled anti-rabbit IgG. Substrate: RNA polymerase peptide. ATP: 100 µM.
Molecular Mass	80 kDa
Purity	91 % by SDS-PAGE/CBB staining
Applications	Functional Study SDS-PAGE
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)

GENE INFORMATION

Gene Name	CDK8 cyclin-dependent kinase 8 [Homo sapiens]
Official Symbol	CDK8
Synonyms	CDK8; cyclin-dependent kinase 8; K35; protein kinase K35; CDK8 protein kinase; mediator complex subunit CDK8; cell division protein kinase 8; mediator of RNA polymerase II transcription subunit CDK8; MGC126074; MGC126075;
Gene ID	1024
mRNA Refseq	NM_001260
Protein Refseq	NP_001251
MIM	603184

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UniProt ID

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