

# Recombinant Human CDK9/CycT1 Complex Protein, His/GST-tagged

**Cat. No.** CDK9-1042H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human CDK9, full length, amino acids M1-F372 (as in NCBI/Protein entry NP_001252.1), N- terminal GST-HIS6 fusion protein with a Thrombin cleavage site, and human CycT1, full length, amino acids M1-K726 (as in NCBI/Protein entry NP_001231.2), N-terminal HI |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                           |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 1-372 a.a.                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | Theoretical MWGST-CDK9: 72,173 Da<br>Theoretical MWHIS-CycT1: 85,441 Da                                                                                                                                                                                         |
| <b>Storage</b>          | At -80 centigrade.<br>For complete recovery, mix well and spin before use. Product must not be stored in diluted solutions, aliquots below 10µ are not advisable. Avoid repeated freeze-thaw cycles!                                                            |
| <b>Concentration</b>    | 0.168 g/µ                                                                                                                                                                                                                                                       |
| <b>Storage Buffer</b>   | 50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20 % glycerol                                                                                                                                                                              |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

**Full Length**
**Full L.**

## GENE INFORMATION

**Gene Name**

CDK9 cyclin dependent kinase 9 [ Homo sapiens (human) ]

**Official Symbol**

CDK9

**Synonyms**

CDK9; cyclin dependent kinase 9; TAK; C-2k; CTK1; CDC2L4; PITALRE; cyclin-dependent kinase 9; CDC2-related kinase; cell division cycle 2-like protein kinase 4; cell division protein kinase 9; serine/threonine protein kinase PITALRE; tat-associated kinase complex catalytic subunit; EC 2.7.11.22; EC 2.7.11.23

**Gene ID**

1025

**mRNA Refseq**

NM\_001261

**Protein Refseq**

NP\_001252

**MIM**

603251

**UniProt ID**

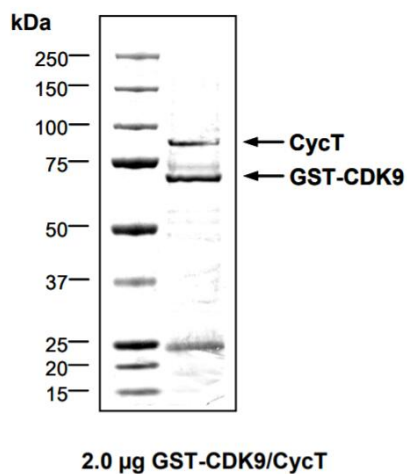
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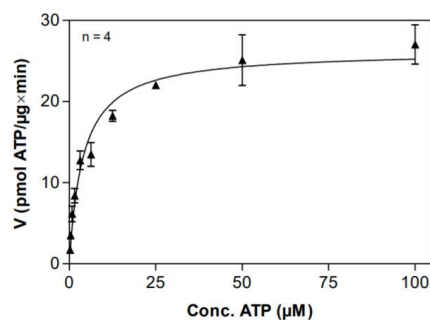
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### Coomassie stain



### Determination of V<sub>max</sub> and K<sub>M</sub> value for ATP



Assay conditions:

60 mM HEPES-NaOH, pH 7.5

3 mM MgCl<sub>2</sub>

3 mM MnCl<sub>2</sub>

3  $\mu$ M Na-orthovanadate

1.2 mM DTT

50 g/ml PEG20.000

ATP (variable)

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Substrate: RB-CTF, 200 µg/ml

Kinase: 4 µg/ml

- Filter binding assay

MSFC membrane (Millipore)

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