

# Recombinant Human CDK13/Cyclin K protein, GST-tagged

**Cat. No.** CDK13-01H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant human CDK13 (516-end) /Cyclin K complex was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag on both proteins.                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | CDK13 (516-end) and Cyclin K (Full Length)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | CDK13 or cyclin-dependent kinase 13 is a member of the cyclin-dependent serine/threonine protein kinase family which are well known for their essential roles as master switches in cell cycle control. CDK13 forms a complex with cyclin K and is predicted to play a role in gene regulation. CDK13 may play a role in mRNA processing and is thought to be involved in regulation of hematopoiesis. The CYCK-CDK12 and CYCK-CDK13 complexes display unique function in cell cycle and gene regulation. |
| <b>Form</b>             | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | CDK13 ~160 kDa and Cyclin K ~67 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | >70%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Applications</b>     | Western Blot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | 1 year at -70 centigrade from date of shipment                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>          | Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.                                                                                                                                           |
| <b>Concentration</b>    | 0.1 ug/uL                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>        | CDK13 cyclin-dependent kinase 13 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                          |
| <b>Official Symbol</b>  | CDK13                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>         | CDK13; cyclin-dependent kinase 13; CDC2L5, cell division cycle 2 like 5 (cholinesterase related cell division controller); CDC2L; CHED; cholinesterase related cell division controller; KIAA1791; CDC2-related protein kinase 5; cell division protein kinase 13; cell division cycle 2-like protein kinase 5; cholinesterase-related cell division controller; CDC2L5; hCDK13; FLJ35215; |
| <b>Gene ID</b>          | 8621                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>      | NM_003718                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>   | NP_003709                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>              | 603309                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>       | Q14004                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Chromosome</b>       | 7p14.1                                                                                                                                                                                                                                                                                                                                                                                     |

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**Location****Function**

ATP binding; RNA polymerase II carboxy-terminal domain kinase activity; cyclin binding; cyclin-dependent protein kinase activity; nucleotide binding; protein binding; protein kinase activity;

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