



# Recombinant Human Cyclin-dependent kinase 4 (CDK4)

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|--------------------------|---|
| <b>Product Code</b>      | CSB-EP005065HU-B  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | P11802  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Homo sapiens (Human)  |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | ATSRYEPVA EIGVGAYGTV YKARDPHSGH FVALKSVRVP NGGGGGGGLP<br>ISTVREVALL RRLEAFEHPN VVRLMDVCAT SRTDREIKVT LVFEHVDQDL<br>RTYLDKAPPP GLPAETIKDL MRQFLRGLDF LHANCIVHRD LKPENILVTS<br>GGTVKLADFG LARIYSYQMA LTPVVVTLWY RAPEVLLQST YATPVMWSV<br>GCIFAEMFRR KPLFCGNSEA DQLGKIFDLI GLPPEDDWPR DVSLPRGAFP<br>PRGPRPVQSV VPEMEESGAQ LLEMLTFNP HKRISAFRAL QHSYLHKDEG<br>NPE  |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | CDK4  |
| <b>Protein Names</b>     | Recommended name: Cyclin-dependent kinase 4 EC= 2.7.11.22 Alternative name(s): Cell division protein kinase 4 PSK-J3  |
| <b>Expression Region</b> | 2-303   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | Full Length of Mature Protein   |
| <b>Target Details</b>    | This protein is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of <i>S. cerevisiae</i> cdc28 and <i>S. pombe</i> cdc2. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported. |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.   |



## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.