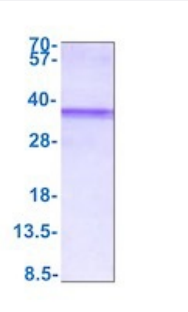
Full-Length

# CDC2 (Human) Recombinant Protein

Catalog # P7727 Size 250 ug

## Applications




SDS-PAGE analysis of CDC2 (Human) Recombinant Protein

## Specification

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|---|---|
| **Product Description** | Human CDC2 (NP_001777, 1 a.a. - 297 a.a ) full-length recombinant protein with His tag expressed in *Baculovirus* expression system. |
| **Sequence** | MEDYTKIEKIGEGTYGVVYKGRHKTTGQVVAMKKIRLESEEEGVPSTAIREISLLKELRHPNIVSLQD VLMQDSRLYLIFEFLSMDLKKYLDSIPPGQYMDSSLVKSYLYQILQGIVFCHSRRVLHRDLKPQNLLI DDKGTIKLADFGLARAFGIPIRVYTHEVVTLWYRSPEVLLGSARYSTPVDIWSIGTIFAELATKKPLFH GDSEIDQLFRIFRALGTPNNEVWPEVESLQDYKNTFPKWKPGSLASHVKNLDENGLDLLSKMLIY DPAKRISGKMALNHPYFNDLDNQIKKM |
| **Host** | Viruses |
| **Theoretical MW (kDa)** | 35.1 |
| **Form** | Liquid |
| **Preparation Method** | *Baculovirus* expression system |
| **Concentration** | 0.5mg/mL |
| **Purity** | > 95% by SDS-PAGE |
| **Endotoxin Level** | < 1 EU per 1ug of protein (determined by LAL method) |

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|---|---|
| **Quality Control Testing** | 3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.<br>SDS-PAGE analysis of CDC2 (Human) Recombinant Protein |
| **Recommend Usage** | SDS-PAGE<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH 7.4 (0.1mM PMSF, 2 mM DTT, 30% glycerol). |
| **Storage Instruction** | Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- SDS-PAGE

## Gene Info — CDC2

| | |
|---|---|
| **Entrez GeneID** | 983 |
| **Protein Accession#** | P06493 |
| **Gene Name** | CDC2 |
| **Gene Alias** | CDC28A, CDK1, DKFZp686L20222, MGC111195 |
| **Gene Description** | cell division cycle 2, G1 to S and G2 to M |
| **Omim ID** | 116940 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting f actor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitot ic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phos phorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for thi s gene. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000019660\|cell cycle controller CDC2\|cell division control protein 2 homolog\|cell div ision cycle 2 protein\|cyclin-dependent kinase 1\|p34 protein kinase |

## Pathway

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- Cell cycle
- Gap junction
- p53 signaling pathway

## Disease

- Alzheimer disease
- Breast cancer
- Breast Neoplasms
- Dementia
- Genetic Predisposition to Disease
- Lung Neoplasms
- Pulmonary Disease

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