

## CDC7/DBF4 active protein

CDC7/DBF4, Active

|                              |                                                   |                                     |
|------------------------------|---------------------------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA72963</b> | HOST<br><b>Sf9 insect cells using baculovirus</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|---------------------------------------------------|-------------------------------------|

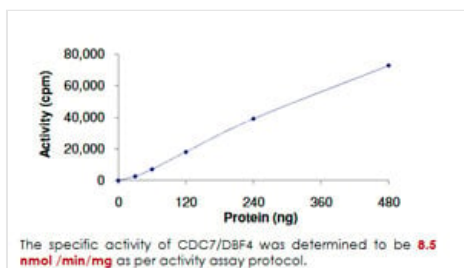
### PRODUCT SYNONYMS

CDC7/DBF4; Active; CDC7/DBF4 active protein

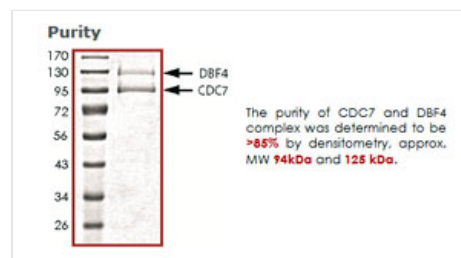
### PRODUCT SPECIFICATIONS

|                                                      |                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                 | Sf9 insect cells using baculovirus                                                                                                                                                                                                                                                                                                       |
| Purity/Purification                                  | >85%                                                                                                                                                                                                                                                                                                                                     |
| Form/Format                                          | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1 mM PMSF, 25% Glycerol.                                                                                                                                                                                                    |
| Concentration                                        | 0.1 ug/uL (varies by lot)                                                                                                                                                                                                                                                                                                                |
| Sequence Positions                                   | Full Length                                                                                                                                                                                                                                                                                                                              |
| Sequence Length                                      | 3222                                                                                                                                                                                                                                                                                                                                     |
| Applicable Applications for CDC7/DBF4 active protein | WB (Western Blot), Kinase Assay                                                                                                                                                                                                                                                                                                          |
| Specific activity                                    | 8.5 nmol/min/mg                                                                                                                                                                                                                                                                                                                          |
| Dry Ice Note                                         | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                                                                                                                       |
| Preparation and Storage                              | <p>Store product at -70°C. 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.</p> <p>Shipping: Ships in dry ice.</p> <p>Stability: 1 year at -70 from date of shipment.</p> |

### IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Related Product Information for CDC7/DBF4 active protein | <p>Description: Recombinant full-length human CDC7 and DBF4 proteins were co-expressed by baculovirus in Sf9 insect cells using an N-terminal GST tags.</p> <p>Scientific Background: CDC7 is a cell division cycle 7 homolog protein that is critical for the G1/S transition and is also essential for initiation of DNA replication as cell division occurs. CDC7 is expressed in many normal tissues, but the overexpression of CDC7 may be associated with neoplastic transformation for some tumors and transformed cell lines (1). CDC7/DBF4 kinase promotes S phase by alleviating an inhibitory activity in Mcm4 that evolved to integrate several protein kinase (2).</p> |
| Product Categories/Family for CDC7/DBF4 active protein   | Enzymes; Active Kinases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| References                                               | 1. Hess, G. F. et.al: A human homolog of the yeast CDC7 gene is overexpressed in some tumors and transformed cell lines. Gene 211: 133-140, 1998. 2. Sheu, Y.-J. et.al: The Dbf4-Cdc7 kinase promotes S phase by alleviating an inhibitory activity in Mcm4. Nature 463: 113-117, 2010.                                                                                                                                                                                                                                                                                                                                                                                             |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| NCBI GI #                        | 197313663                                                             |
| NCBI GeneID                      | 8317                                                                  |
| NCBI Accession #                 | NM_003503.3                                                           |
| NCBI GenBank Nucleotide #        | NM_003503                                                             |
| UniProt Accession #              | O00311; O00558; Q5T5U5; D3DT31                                        |
| NCBI Official Full Name          | Homo sapiens cell division cycle 7 (CDC7), transcript variant 1, mRNA |
| NCBI Official Synonym Full Names | cell division cycle 7                                                 |
| NCBI Official Symbol             | CDC7                                                                  |
| NCBI Official Synonym Symbols    | Hsk1; CDC7L1; HsCDC7; huCDC7                                          |
| NCBI Protein Information         | cell division cycle 7-related protein kinase                          |
| UniProt Protein Name             | Cell division cycle 7-related protein kinase                          |
| UniProt Gene Name                | CDC7                                                                  |
| UniProt Synonym Gene Names       | CDC7L1; CDC7-related kinase; HsCdc7; huCdc7                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/sf9-insect-cells-using-baculovirus-active-protein/cdc7-dbf4/72963>