

Recombinant Human Cell Division Cycle 25 Homolog C (S. Pombe)

Cat. No. CDC25C-699H **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human Cell Division Cycle 25 Homolog C (S. Pombe) is expressed in <i>E.coli</i> . |
| Species | Human |
| Source | E.coli |
| Description | Cdc25 is a dual-specificity phosphatase first isolated from the yeast <i>Schizosaccharomyces pombe</i> as a cell cycle defective mutant. As with other cell cycle proteins such as Cdc2 and Cdc4, the "cdc" in its name refers to "cell division cycle". Dual-specificity phosphatases are considered a sub-class of protein tyrosine phosphatases. By removing inhibitory phosphate residues from target Cyclin-Dependent Kinases (Cdks, Cdc25 proteins control entry into and progression through various phases of the cell cycle, including mitosis and S ("Synthesis") phase. |
| Purity | Greater than 90 % pure as determined by SDS-PAGE analysis. |
| Molecular Weight | 48 kDa band by SDS-PAGE analysis. |
| Formulation | The recombinant Cdc25C (catalytic domain) is supplied frozen in a buffer containing 20mM Tris-HCl (pH 8.2), 1mM EDTA, 2 mM DTT and 50% glycerol. |
| Storage | Stable for 12 months at -70°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |

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Aliquot enzyme to avoid repeated freezing and thawing.

GENE INFORMATION

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| Gene Name | CDC25C cell division cycle 25 homolog C (S. pombe) [Homo sapiens] |
| Synonyms | CDC25C; cell division cycle 25 homolog C (S. pombe); M-phase inducer phosphatase 3; OTTHUMP00000159490; cell division cycle 25C; dual specificity phosphatase CDC25C; mitosis inducer CDC25; phosphotyrosine phosphatase; CDC25; EC 3.1.3.48 |
| Gene ID | 995 |
| mRNA Refseq | NM_001790 |
| Protein Refseq | NP_001781 |
| MIM | 157680 |
| UniProt ID | P30307 |
| Chromosome Location | 5q31 |
| Pathway | Cell cycle; Oocyte meiosis; Progesterone-mediated oocyte maturation; Cell Cycle Checkpoints; Cell Cycle, Mitotic |
| Function | WW domain binding; hydrolase activity; phosphoprotein phosphatase activity; protein binding; protein tyrosine phosphatase activity |

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