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

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

SPECIFICATION

Product Overview	Recombinant Human Cell Division Cycle 25 Homolog C (S. Pombe) is expressed in*E.coli.*
Species	Human
Source	E.coli
Description	Cdc25 is a dual-specificity phosphatase first isolated from the yeast Schizosaccharomyces pombe 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 bandby 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.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	Aliquot enzyme to avoid repeated freezing and thawing.

GENE INFORMATION

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA