

Recombinant Human CDC25A, His-tagged

Cat. No. CDC25A-27899TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Cdc25A with N terminal His and DDDDK tags; predicted MWt 63.2kDa, 560 amino acids inclusive of tags;
Species	Human
Source	E.coli
ProteinLength	524 amino acids
Description	CDC25A is a member of the CDC25 family of phosphatases. CDC25A is required for progression from G1 to the S phase of the cell cycle. It activates the cyclin-dependent kinase CDC2 by removing two phosphate groups. CDC25A is specifically degraded in response to DNA damage, which prevents cells with chromosomal abnormalities from progressing through cell division. CDC25A is an oncogene, although its exact role in oncogenesis has not been demonstrated. Two transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Molecular Weight	63.200kDa inclusive of tags
Form	Liquid
Purity	by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 20% Glycerol, 5mM DTT, 200mM Sodium chloride, 20mM Tris HCl, 1mM EDTA, pH 8
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMELG PEPPHRRLL FACSPPPASQ PVVKALFGAS AAGGLSPVTN LTVTMDQLQGLGSDYEQPLE VKNNSNLQRM GSSESTDSGF CLDSPGPLDS KENLENPMRR IHSLPQKLLG CSPALKRSHS DSLDHDIFQL IDPDENKENEAFEFKKPVRP VSRGCLHSHG LQEGKDLFTQ RQNSAPARML SSNERDSSEP GNFIPLFTPQ SPVTATLSDE DDGFVDLLDG ENLKNEEETPSCMASLWTAP LVMRTTNLDN RCKLFDSPSL CSSSTRSVLK RPERSQEESP PGSTKRRKSM SGASPKESTN PEKAHETLHQ SLSLASSPKG TIENILDNDP RDLIGDFSKG YLFHTVAGKH QDLKYISPEI MASVLNGKFA NLIKEFVIID CRYPYEYEGG HIKGAVNLHM EEEVDFLLKKPIVPTDGKR VIVVFHCEFS SERGPRMCRY VRERDRLGNE YPKLHPELY VLKGGYKEFF MKCQSYCEPP SYRPMHHEDF KEDLKKFRTKSRTWAGEKSK REMYSRLKKL
Sequence Similarities	Belongs to the MPI phosphatase family. Contains 1 rhodanese domain.
GENE INFORMATION	
Gene Name	CDC25A cell division cycle 25 homolog A (S. pombe) [Homo sapiens]
Official Symbol	CDC25A
Synonyms	CDC25A; cell division cycle 25 homolog A (S. pombe); cell division cycle 25 homolog A (S. cerevisiae) , cell division cycle 25A; M-phase inducer phosphatase 1;

Gene ID	993
mRNA Refseq	NM_001789
Protein Refseq	NP_001780
MIM	116947
Uniprot ID	P30304
Chromosome Location	3p21
Pathway	Activation of ATR in response to replication stress, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem;
Function	hydrolase activity; protein binding; protein tyrosine phosphatase activity;

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