

Recombinant Human CDC25A

Cat. No. CDC25A-27898TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Cdc25A; amino acids 1-524, 68kDa.
Species	Human
Source	E.coli
ProteinLength	1-524 a.a.
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.
Biological activity	Activity:1 nmol of Cdc25A will hydrolyze 10 nmol of pNPP per minute at 37°C at pH 8.0.Assay buffer: 50 mM Tris-HCl, pH 8.0, 50 mM NaCl, 0.1 mM EDTA.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 40mM Sodium chloride, 25mM HEPES, 2mM DTT, pH 7.2

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the MPI phosphatase family.Contains 1 rhodanese domain.
Full Length	Full L.
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-

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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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