

Recombinant Human CDC25A protein, His-tagged

Cat. No. CDC25A-3440H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDC25A(1-524aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-524 a.a.
Description	M-phase inducer phosphatase 1, also known as 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 20% glycerol, 0.2M NaCl, 1mM EDTA
Molecular Mass	63.2 kDa (560aa)
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSLGSDYEQPLE VKNNNSNLQRM GSSESTDSGF CLDSPGPLDS KENLENPMRR IHSLPQKLLG CSPALKRSHS DSLDHDIFQL IDPDENKENE MELG PEPPHRRRLL FACSPPPASQ

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PVVKALFGAS AAGGLSPVTN LTVTMDQLQGAFEFKKPVRP VSRGCLHSHG
 LQEGKDLFTQ RQNSAPARML SSNERDSSEP GNFIPLFTPQ SPVTATLSDE
 DDGFVDLLDG ENLKNEEETPSCMASLWTAP LVMRTTNLDN RCKLFDSPSL
 CSSSTRSVLK RPERSQEESP PGSTKRRKSM SGASPKESTN PEKAHETLHQ
 SLSLASSPKGTIENILDNDP RDLIGDFSKG YLFHTVAGKH QDLKYISPEI
 MASVLNGKFA NLIKEFVIID CRYPYEYEGG HIKGAVNLHM
 EEEVEDFLLKKPIVPTDGKR VIVVFHCEFS SERGPRMCRY VRERDRLGNE
 YPKLHYPELY VLKGGYKEFF MKCQSYCEPP SYRPMHHEDF
 KEDLKKFRTKSRTWAGEKSK REMYSRLKKL

Purity >80% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

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; CDC25A2-CAG isoform; cell division cycle 25A; dual specificity phosphatase CDC25A; CDC25A2;

Gene ID 993

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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, 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; Cell cycle, conserved biosystem;
Function	hydrolase activity; protein binding; protein kinase binding; protein tyrosine phosphatase activity;