

Recombinant Human CDC25A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CDC25A-5283H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CDC25A MS Standard C13 and N15-labeled recombinant protein (NP_001780) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	59.1 kDa
AA Sequence	MELGPEPPHRRRLLFACSPPPASQPVVKALFGASAAGGLSPVTNLTVTMDQLQGLG SDYEQPLEVKNNNSNLQRMGSSESTDSGFCLDSPGPLDSKENLENPMRRIHSLPQKL LGCSPALKRSHSDSLDHDIFQLIDPDENKENEAFEFKKPVRPVSRGCLHSHGLQEKG DLFTQRQNSAPARMLSSNERDSSEPGNFIPLFTPQSPVTATLSDEDDGFVDLLDGE NLKNEEETPSCMASLWTAPLVMRTTNLDNRCKLFDSPSLCSSSTRSVLKRPERSQE ESPPGSTKRRKSMGASPKESTNPEKAHETLHQSLSLASSPKGTIENILDNDPRDLI

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GDFSKGYLFHTVAGKHQDLKYISPEIMASVLNGKFANLIKEFVIIDCRYPYEYEGGHIK
 GAVNLHMEEEEVEDFLLKKPIVPTDGKRVIVVFHCEFSSERGPRMCRYVRERDRLGN
 EYPKLHYPELYVLKGGYKEFFMKCQSYCEPPSYRPMHHEDFKEDLKKFRTKSRTW
 AGEKSKREMYSRLKKLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CDC25A cell division cycle 25A [Homo sapiens (human)]

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

mRNA Refseq NM_001789

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Protein Refseq	NP_001780
MIM	116947
UniProt ID	P30304

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