

## CDC25A Human

**Description:** CDC25A Human Recombinant fused with a 36 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 560 amino acids (1-524 a.a.) and having a molecular mass of 63.2kDa. The CDC25A is purified by proprietary chromatographic techniques.

Catalog #:ENPS-098

For research use only.

**Synonyms:** M-phase inducer phosphatase 1, Dual specificity phosphatase Cdc25A, CDC25A, CDC25A2.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMELG  
PEPPHRRLL FACSPPPASQ PUVKALFGAS AAGGLSPVTN LTVTMDQLQG LGS DYEQPLE  
VKNNNLQRM GSSESTDSGF CLDSPGPLDS KENLENPMRR IHSLPQKLLG CSPALKRSHS  
DSLHDHIFQL IDPDENKENE AFEFKKPVVP VSRGCLHSHG LQEGKDLFTQ RQNSAPARML  
SSNERDSSEP GN

**Purity:** Greater than 80.0% as determined by SDS-PAGE.

### Formulation:

The CDC25A solution (0.25 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 5mM DTT, 20% glycerol, 0.2M NaCl and 1mM EDTA.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

M-phase inducer phosphatase 1 (CDC25A) belongs to the CDC25 family of phosphatases. CDC25A is essential for progression from G1 to the S phase of the cell cycle. CDC25A activates the cyclin-dependent kinase CDC2 by eliminating 2 phosphate groups. CDC25A is specifically degraded in reaction to DNA damage, which inhibits cells with chromosomal abnormalities from progressing in the course of cell division. CDC25A is an oncogene, though its exact function in oncogenesis has not been determined.

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