
Product Data Sheet

Product Name: CDC25A Human
 Cat. No.: GP21472
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	M-phase inducer phosphatase 1; Dual specificity phosphatase Cdc25A; CDC25A; CDC25A2.		
Amino Acid Sequence	<p>MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMELG PEPHRRRL FACSPPPASQ PVVKALFGAS AAGGLSPVTN LVTMDQLQG LGS DYEQPLE VKNNSNLQRM GSSESTD SGF CLDSPGPLDS KENLENPMRR IHSLPQKLLG CSPALKRSHS DSLDHDIFQL IDPDENKENE AFEFKKPVPR VSRGCLHSHG LQEGKDLFTQ RQNSAPARML SSNERDSSEP GNFIPLFTPQ SPVTATLSDE DDGFVDLLDG ENLKNEEETP SCMASLWTAP LVMRTTNLDN RCKLFDPSL CSSSTRSVLK RPERSQEESP PGSTKRRKSM SGASPKESTN PEKAHETLHQ SLSLASSPKG TIENILDNDP RDLIGDFSKG YLFHTVAGKH QDLKYISPEI MASVLNGKFA NLIKEFVIID CRYPYEYEGG HIKGAVNLHM EEEVEDFLK KPIVPTDGKR VIVVFHCEFS SERGPRMCRY VRERDRLGNE YPKLHPELY VLKGGYKEFF MKCQSYCEPP SYRPMHHEDF KEDLKKFR TK SRTWAGEKSK REMYSRLKKL.</p>		
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.		

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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

CDC25A Human Recombinant fused with a36 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.

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