

AR09885PU-N

Human CDC25A (1-524, His-tag) - Purified

Alternate names:

CDC-25A, Cell Division Cycle 25A, Dual specificity phosphatase Cdc25A, M-phase inducer phosphatase 1

Quantity:

50 µg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P30304](#)

NCBI:

[NP_001780](#)

GenelD:

[993](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >80%

Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 20% glycerol, 0.2M NaCl, 1mM EDTA

Description:

Recombinant human CDC25A protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWGSMEIG PEPHRRRL L FACSPPPASQ
PVVKALFGAS AAGGLSPVTN LTVTMDQLQG LGSDYEQPLE VKNNSNLQRM GSSESTDGSGF
CLDSPGPLDS KENLENPMRR IHSLPQKLLG CSPALKRSHS DSLDHDIFQL IDPDENKENE
AFEFKKPVRP VSRGCLHSHG LQEGKDLFTQ RQNSAPARML SSNERDSSEP GNFIPLFTPQ
SPVTATLSDE DDGFVDLLDG ENLKNEEETP SCMASLWTAP LVMRTTNLDN RCKLFDSPSL
CSSSTRSVLK RPERSQEESP PGSTKRRKSM SGASPKESTN PEKAHETLHQ SLSLASSPKG
TIENILDNDP RDLIGDFSKG YLFHTVAGKH QDLKYISPEI MASVLNGKFA NLIKEFVIID
CRYPYEGG HIKGAVNLHM EEEVEDFLLK KPIVPTDGKR VIVVFHCEFS SERGPRMCRY
VRERDLGNE YPKLHPELY VLKGGYKEFF MKCQSYCEPP SYRPMHHEDF KEDLKKFRTK
SRTWAGEKSK REMYSRLKKL

Molecular weight: 63.2 kDa (560aa)

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

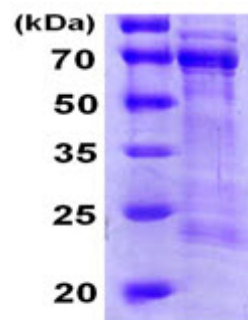
General Readings:

Pereg Y., et al. (2010) Nat. Cell Biol. 12:400-406.

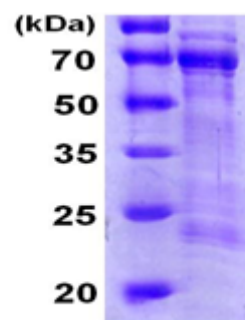
Soerensen C.S., et al. (2003) Cancer Cell 3:247-258.

Pictures:

Recombinant human CDC25A, 1-524 aa,
His-tagged



15% SDS-PAGE (3ug)



15% SDS-PAGE (3ug)