

Recombinant human CDK1 protein

Catalog Number: ATGP3012

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-297aa

UniProt No.

P06493

NCBI Accession No.

NP_001777

Alternative Names

Cyclin-dependent kinase 1 isoform 1, CDC2, CDC28A, P34CDC2

PRODUCT SPECIFICATION

Molecular Weight

36.2 kDa (317aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CDK1 also known as Cyclin-dependent kinase 1 plays a key role in the control of the eukaryotic cell cycle by modulating the centrosome cycle as well as mitotic onset; promotes G2-M transition, and regulates G1 progress and G1-S transition via association with multiple interphase cyclins. This protein is required in higher cells for entry into S-phase and mitosis. Recombinant human CDK1, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

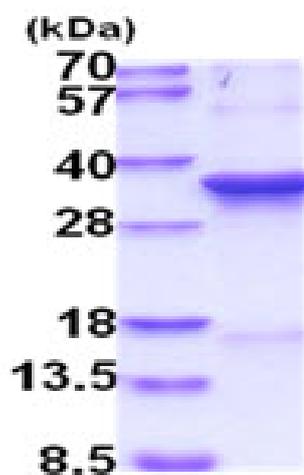
MGSSHHHHHH SSSLVPRGSH MEDYTKIEKI GEGTYGVVYK GRHKTTGQVW AMKKIRLESE EEGVPSTAIR EISLLKELRH
PNIVSLQDVL MQDSRLYLIF EFLSMDLKKY LDSIPPGQYM DSSLVKSYLE QILQGIVFCH SRRVLHRDLK PQNLLIDDKG
TIKLADFGLA RAFGIPIRVY THEVVTWLYR SPEVLLGSAR YSTPVDIWSI GTIFAEATK KPLFHGDSEI DQLFRIFRAL
GTPNNEVWPE VESLQDYKNT FPKWKPGSLA SHVKNLDENG LDLLSKMLIY DPAKRISGKM ALNHPYFNDL DNQIKKM

General References

Enserink JM., et al. (2010) Cell Division 5 (11): 1-41.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)