Recombinant human CDK1 protein

Catalog Number: ATGP2877

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
1-297aa

UniProt No.
P06493

NCBI Accession No.
NP_001777

Alternative Names
Cyclin-dependent kinase 1, CDC2, CDC28A, P34CDC2

PRODUCT SPECIFICATION

Molecular Weight
35.1 kDa (305aa)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) 30% glycerol, 2mM DTT, 0.1mM PMSF

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

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
Cyclin-dependent kinase 1, also known as CDK1, 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 protein, fused to His-tag at C-terminus, was

expressed in insect cells using baculovirus expression system and purified by using conventional chromatography techniques.

Amino acid Sequence

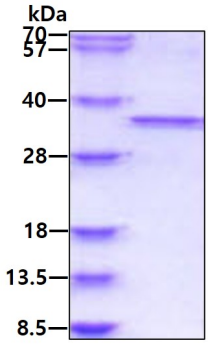
MEDYTKIEKI GEGTYGVVYK GRHKTTGQVV AMKKIRLESE EEGVPSTAIR EISLLKELRH PNIVSLQDVL MQDSRLYLIF EFLSMDLKKY LDSIPPGQYM DSSLVKSYLY QILQGIVFCH SRRVLHRDLK PQNLLIDDKG TIKLADFGLA RAFGIPIRVY THEVVTLWYR SPEVLLGSAR YSTPVDIWSI GTIFAELATK KPLFHGDSEI DQLFRIFRAL GTPNNEVWPE VESLQDYKNT FPKWKPGSLA SHVKNLDENG LDLLSKMLIY DPAKRISGKM ALNHPYFNDL DNQIKKMz<LEH HHHHH>

General References

Fourest-Lieuvin A., et al. (2006) Mol. Biol. Cell. 17:1041-1050
Westbrook L., et al. (2007) Cancer Res. 67:11393-11401

DATA

SDS-PAGE



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