Recombinant human CDK2 protein

Catalog Number: ATGP1180

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-298aa

UniProt No.
P24941

NCBI Accession No.
NP_001789.2

Alternative Names
Cyclin-depentent kinase 2, p33, CDK2

PRODUCT SPECIFICATION

Molecular Weight
35.0 kDa (306aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT

Purity
> 95% by SDS-PAGE

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
CDK2, also known as cyclin-depentent kinase 2, is a member of the Ser/Thr protein kinase family. It is highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2. It is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and is essential for cell cycle G1/S phase transition. This protein associates with and is regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by protein phosphorylation. Recombinant human CDK2 protein, fused to His-tag at C-terminus, was expressed in E.

coli and purified by using conventional chromatography.

Amino acid Sequence

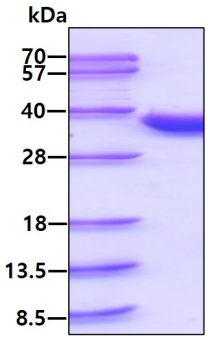
MENFQKVEKI GEGTYGVVYK ARNKLTGEVV ALKKIRLDTE TEGVPSTAIR EISLLKELNH PNIVKLLDVI HTENKLYLVF EFLHQDLKKF MDASALTGIP LPLIKSYLFQ LLQGLAFCHS HRVLHRDLKP QNLLINTEGA IKLADFGLAR AFGVPVRTYT HEVVTLWYRA PEILLGCKYY STAVDIWSLG CIFAEMVTRR ALFPGDSEID QLFRIFRTLG TPDEVVWPGV TSMPDYKPSF PKWARQDFSK VVPPLDEDGR SLLSQMLHYD PNKRISAKAA LAHPFFQDVT KPVPHLRL<LE HHHHHH>

General References

Gyuris J., et al. (1993) Cell. 75:791-803
Hannon G.J., et al. (1994) Proc. Natl. Acad. Sci. u.S.A. 91:1731-1735

DATA

SDS-PAGE



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