

Product Information



Recombinant human CDK2 protein

Catalog Number: IBATGP1180

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-298aa

UniProt No.

P24941

NCBI Accession No.

NP_001789.2

Alternative Names

Cyclin-dependent 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-dependent 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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)

8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA

Phone: (888) 523-1246

Fax: (763) 780-2988

Email: info@ibl-america.com

Web: www.ibl-america.com

Product Information



Recombinant human CDK2 protein

Catalog Number: IBATGP1180

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 QLFRIFRTLK TPDEVVWPGV TSMPDYKPSF
PKWARQDFSK VVPLDEDGR SLLSQMLHYD PNKRISAKAA LAHPFFQDVT KPVPHLRL<LE HHHHHH>

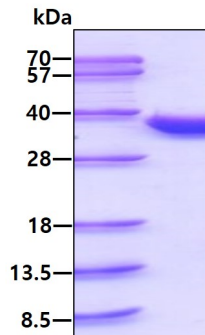
General References

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)

8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA

Phone: (888) 523-1246

Fax: (763) 780-2988

Email: info@ibl-america.com

Web: www.ibl-america.com