

Recombinant human CDK4 protein

Catalog Number: ATGP1724

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-303aa

UniProt No.

P11802

NCBI Accession No.

NP_000066

Alternative Names

Cyclin-dependent kinase 4, CMM3, PSK-J3

PRODUCT SPECIFICATION

Molecular Weight

36.1 kDa (326aa)

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

Cyclin-dependent kinase 4, also known as CDK4, belongs to the Cyclin-dependent kinases (CDK) family. CDK are the catalytic subunits of the cyclin/cdk complexes, which phosphorylate substrates on threonine/serine residues. CDK4, in complex with D-type cyclins, is thought to regulate cell growth during the G1 phase of the cell cycle. This association with a D-type cyclin upregulates CDK4 activity, whereas binding to the CDK inhibitor p16 downregulates CDK4 activity. Recombinant human CDK4 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMATSRYE PVAEIGVGAY GTVYKARDPH SGHFVALKSV RVPNGGGGGG GLPISTVREV
ALLRRLEAFE HPNVVRLMDV CATSRTDREI KVTLVFEHVD QDLRTYLDKA PPPGLPAETI KDLMRQFLRG LDFLHANCIV
HRDLKPENIL VTSGGTVKLA DFGLARIYSY QMALTPVVVT LWYRAPEVLL QSTYATPVDW WSVGCIFAEM FRRKPLFCGN
SEADQLGKIF DLIGLPPEDD WPRDVSLPRG AFPPRGPRPV QSVVPEMEES GAQLLLEMLT FNPHKRISAF RALQHSYLHK
DEGNPE

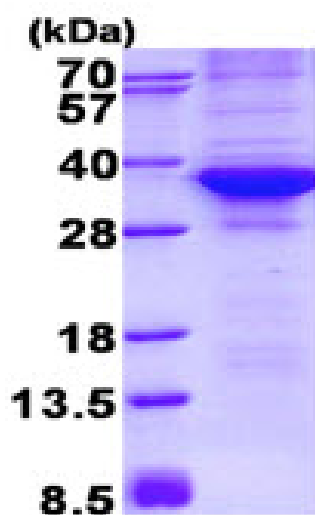
General References

Serrano M., et al. (1993) Nature.366:704-707.

Kato J Y., et al. (1994) Mol Cell Biol. 14:2713-2721.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)