

Recombinant Human CDK4 Protein (His Tag)

Catalog Number:PDEH100047



Note: Centrifuge before opening to ensure complete recovery of vial contents.

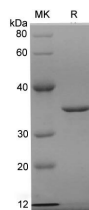
Description

Synonyms	Cdk 4;cdk4;CDK4 protein;CDK4;Cell division kinase 4;Cell division protein kinase 4;CMM 3;CMM3;Crk3;Cyclin dependent kinase 4;Cyclin-dependent kinase 4;Melanoma cutaneous malignant 3;MGC14458;p34 cdk4;PSK J3;PSK-J3
Species	Human
Expression Host	E.coli
Sequence	Ala2-Glu303
Accession	P11802-1
Calculated Molecular Weight	33.5 kDa
Observed molecular weight	35.8 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of *S. cerevisiae* cdc28 and *S. pombe* cdc2. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of

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cancers. Multiple polyadenylation sites of this gene have been reported.

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