



Recombinant Human Cyclin-dependent Kinase 2

SHANGHAI GENOMICS

rHuCDK2

Catalog number:SG3132-10

Specifications and Use

Source	● Sf9 insect cell
Molecular Mass	● 37.5 kDa.
Purity	● ≥ 90% as determined by SDS-PAGE
Tag	● 6 x His
Formulation	● 20mM Tris-HCl, 150mM NaCl, 0.5mM EDTA, pH7.9, 10% glycerol
Stability	● Store at -80°C. Avoid repeated freezing and thawing
Usage	● FOR RESEARCH USE ONLY. NOT FOR HUMAN USE.

Human CDK2

In vertebrates, as in yeast, multiple cyclins have been identified, including a total of eight such regulatory proteins in mammals. In contrast to the situation in yeast, the Cdc2 p34 kinase is not the only catalytic subunit identified in vertebrates that can interact with cyclins. While Cdc2 p34 is essential for the G2 to M transition in vertebrate cells, a second Cdc2-related kinase has also been implicated in cell cycle control. This protein, designated cyclindependent kinase 2 (Cdk2) p33, also binds to cyclins and its kinase activity is temporally regulated during the cell cycle. Several additional Cdc2 p34-related cyclin dependent kinases have been identified. These include Cdk3, Cdk4, Cdk5, PCTAIRE-1, PCTAIRE-2, PCTAIRE-3, Cdk6, Cdk7 and Cdk8.

Protein Sequence

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HHHHHDYDIPTTENLYFQAAMDPEFRANPAMENFQKVEKIGEGTYGVVYKARNKLTGEVVALKKI  
RLDTETEGVPSTAIRESLLKELNHPNIVKLLDVIHTENKLYLVFEFLHQDLKKFMDASALTGIPLIKS  
YLFQLLQGLAFCHSHRVLHRDLKPNLLINTEGAIKLADFGLARAFGVPVPTYTHEVVTLWYRAPEIL  
LGCKYYSTAVDIWSLGCIFAEMVTRRALFPGDSEIDQLFRIFRTLGTPEVVWPGVTSMPTYKPSFP  
KWARQDFSKVVPPLDEDGRSLLSQMLHYDPNKRISAKAALAHPPFQDVTKPVPHLRL
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