

CDK2 recombinant protein

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CATALOG #
AAA72934

HOST
Sf9 insect cells

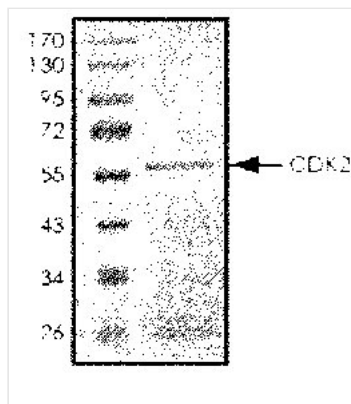
PRODUCT SYNONYMS

CDK2; CDK2 recombinant protein; p33 (CDK2)

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>80%
Form/Format	50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.05ug/ul (varies by lot)
Sequence Length	2325
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Shipping: DRY ICE

IMAGES



SDS-PAGE

The purity was determined to be >80% by densitometry. Approx. MW 58kDa

ADDITIONAL INFORMATION

Related Product Information for CDK2 recombinant protein	Recombinant full-length human CDK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: CDK2 is a member of the Cyclin-Dependent Kinase family that is ubiquitously expressed. CDK2 is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and essential for cell cycle G1/S phase transition. CDK2 associates with and is regulated by the regulatory subunits of the complex including Cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B) (1). CDK2 phosphorylates multiple cellular substrates including SMAD3 and FOXO1. Phosphorylation of FOXO1 leads to its inhibition (2).
Product Categories/Family for CDK2 recombinant protein	Cell Cycle Proteins; Signaling Proteins - Cell Cycle Proteins
References	1. Levkau, B. et al: Cleavage of p21 (Cip1/Waf1) and p27 (Kip1) mediates apoptosis in endothelial cells through activation of Cdk2: role of a caspase cascade. Molec. Cell 1: 553-563, 1998. 2. Huang, H. et al: CDK2-dependent phosphorylation of FOXO1 as an apoptotic response to DNA damage. Science 314: 294-297, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	166362720
NCBI GeneID	1017
NCBI Accession #	NP_001789.2
NCBI GenBank Nucleotide #	NM_001798
UniProt Accession #	P24941; O75100; A8K7C6
Molecular Weight	~58 kDa
NCBI Official Full Name	Homo sapiens cyclin-dependent kinase 2 (CDK2), transcript variant 1, mRNA
NCBI Official Synonym Full Names	cyclin-dependent kinase 2
NCBI Official Symbol	CDK2
NCBI Official Synonym Symbols	p33(CDK2)
NCBI Protein Information	cyclin-dependent kinase 2; p33 protein kinase; cell division kinase 2; cdc2-related protein kinase; cell division protein kinase 2
UniProt Protein Name	Cyclin-dependent kinase 2
UniProt Gene Name	CDK2
UniProt Synonym Gene Names	CDKN2
UniProt Entry Name	CDK2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.