

CDK6/CyclinD1 Recombinant Protein | CDK6 recombinant protein

CDK6/CyclinD1, Active

CATALOG # AAA73355	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

CDK6/CyclinD1; Active; CDK6: PLSTIRE; MGC59692 Cyclin D1: BCL1; PRAD1; U21B31; D11S287E; CDK6 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.2mM DTT, 25% glycerol.
Applicable Applications for CDK6 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST/HIS
Species	Human
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.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for CDK6 recombinant protein	Recombinant full-length human CDK6 and CyclinD1 were co-expressed by baculovirus in Sf9 insect cells using an N-terminal His tag on CDK6 and GST tag on CyclinD1 proteins. The gene accession numbers for CDK6 and CyclinD1 are NM_001259 and NM_053056, respectively. CDK6 is a member of the cyclin-dependent family of protein kinases that are important regulators of cell cycle progression. CDK6 activity is regulated by the D-type cyclins and members of the INK4 family of CDK inhibitors (1). The CDK6 kinase activity is detected in mid-G1 phase of the cell cycle and is responsible for the phosphorylation and regulation of the activity of tumor suppressor protein Rb. Although CDK6 and CDK4 can both phosphorylate multiple residues in the Rb protein, they do so with different residue selectivity in vitro; CDK6 phosphorylates Thr821 while CDK4 phosphorylates Thr826 on Rb protein (2).
Product Categories/Family for CDK6 recombinant protein	Protein Kinases; Cancer; Cell Cycle; Ser/Thr Kinases

References

1. Meyerson, M. et al: Identification of G1 kinase activity for cdk6, a novel cyclin D partner. Molec. Cell. Biol. 14: 2077-2086, 1994.
2. Takaki, T. et al: Preferences for phosphorylation sites in the retinoblastoma protein of D-type cyclin-dependent kinases, Cdk4 and Cdk6, in vitro. J Biochem. 2005 Mar;137(3):381-6.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_001259](#)

Molecular Weight

~40kDa and CyclinD1 ~61kDa

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/cdk6/cyclind1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73355>