

Datasheet for ABIN7563983
CDK6 Protein (AA 1-326) (His tag)



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Overview

Quantity:	1 mg
Target:	CDK6
Protein Characteristics:	AA 1-326
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDK6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Cdk6 Protein expressed in mammalian cells.
Sequence:	<p>MEKDSLRSRAD QQYECVAEIG EGAYGKVFKA RDLKNGGRFV ALKRVRVQTS EEGMPLSTIR</p> <p>EVAVLRHLET FEHPNVVRLF DVCTVSRTDR ETKLTLVFEH VDQDLTTYLD KVPEPGVPTE</p> <p>TIKDMMFQLL RGLDFLHSHR VVHRDLKPQN ILVTSSGQIK LADFLGARIY SFQMALTSVV</p> <p>VTLWYRAPEV LLQSSYATPV DLWSVGCIFA EMFRRKPLFR GSSDVDQLGK ILDIIGLPGE</p> <p>EDWPRDVALP RQAFHSKSAQ PIEKFVTDID ELGKDLLLKC LTFNPAKRIS AYGALNHPYF</p> <p>QDLERYKDNL NSHLPSNQST SELNTA Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	CDK6
Alternative Name:	Cdk6 (CDK6 Products)
Background:	<p>Cyclin-dependent kinase 6 (EC 2.7.11.22) (CR2 protein kinase) (CRK2) (Cell division protein kinase 6) (Serine/threonine-protein kinase PLSTIRE),FUNCTION: Serine/threonine-protein kinase involved in the control of the cell cycle and differentiation, promotes G1/S transition. Phosphorylates pRB/RB1 and NPM1. Interacts with D-type G1 cyclins during interphase at G1 to form a pRB/RB1 kinase and controls the entrance into the cell cycle. Involved in initiation and maintenance of cell cycle exit during cell differentiation, prevents cell proliferation and negatively regulates cell differentiation, but is required for the proliferation of specific cell types (e.g. erythroid and hematopoietic cells). Essential for cell proliferation within the dentate gyrus of the hippocampus and the subventricular zone of the lateral ventricles. Required during thymocyte development. Promotes the production of newborn neurons, probably by modulating G1 length. Promotes, at least in astrocytes, changes in patterns of gene expression, changes in the actin cytoskeleton including loss of stress fibers, and enhanced motility during cell differentiation. Prevents myeloid differentiation by interfering with RUNX1 and reducing its transcription transactivation activity, but promotes proliferation of normal myeloid progenitors. Delays senescence. Promotes the proliferation of beta-cells in pancreatic islets of Langerhans</p>

Target Details

	(By similarity). May play a role in the centrosome organization during the cell cycle phases. {ECO:0000250 UniProtKB:Q00534, ECO:0000269 PubMed:16767702, ECO:0000269 PubMed:21319271, ECO:0000269 PubMed:21508411}.
Molecular Weight:	37.0 kDa
UniProt:	Q64261
Pathways:	Cell Division Cycle, Mitotic G1-G1/S Phases

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months