

Datasheet for ABIN3091604

CDK3 Protein (AA 1-305) (Strep Tag)



Go to Product page

_				
	۱۱ / ۱	rv		۱۸/
	' V '	 ı v	Ι.	v v

Quantity:	1 mg
Target:	CDK3
Protein Characteristics:	AA 1-305
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDK3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details		
Brand:	AliCE®	
Sequence:	MDMFQKVEKI GEGTYGVVYK AKNRETGQLV ALKKIRLDLE MEGVPSTAIR EISLLKELKH	
	PNIVRLLDVV HNERKLYLVF EFLSQDLKKY MDSTPGSELP LHLIKSYLFQ LLQGVSFCHS	
	HRVIHRDLKP QNLLINELGA IKLADFGLAR AFGVPLRTYT HEVVTLWYRA PEILLGSKFY	
	TTAVDIWSIG CIFAEMVTRK ALFPGDSEID QLFRIFRMLG TPSEDTWPGV TQLPDYKGSF	
	PKWTRKGLEE IVPNLEPEGR DLLMQLLQYD PSQRITAKTA LAHPYFSSPE PSPAARQYVL QRFRH	
	Sequence without tag. The proposed Strep-Tag is based on experience s 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.	
Characteristics:	Key Benefits:	
	Made in Germany - from design to production - by highly experienced protein experts.	

- · Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression		
	System (AliCE®).		
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).		
Grade:	custom-made		
Target Details			
Target:	CDK3		
Alternative Name:	CDK3 (CDK3 Products)		

Target Details

Background:	Cyclin-dependent kinase 3 (EC 2.7.11.22) (Cell division protein kinase 3),FUNCTION:	
	Serine/threonine-protein kinase that plays a critical role in the control of the eukaryotic cell	
	cycle, involved in G0-G1 and G1-S cell cycle transitions. Interacts with CCNC/cyclin-C during	
	interphase. Phosphorylates histone H1, ATF1, RB1 and CABLES1. ATF1 phosphorylation	
	triggers ATF1 transactivation and transcriptional activities, and promotes cell proliferation and	
	transformation. CDK3/cyclin-C mediated RB1 phosphorylation is required for G0-G1 transition.	
	Promotes G1-S transition probably by contributing to the activation of E2F1, E2F2 and E2F3 in a	
	RB1-independent manner. {EC0:0000269 PubMed:15084261, EC0:0000269 PubMed:18794154	
	ECO:0000269 PubMed:8846921}.	
Molecular Weight:	35.0 kDa	
UniProt:	Q00526	
Pathways:	Cell Division Cycle	
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.	
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from	
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce	
	even the most difficult-to-express proteins, including those that require post-translational	
	modifications.	
	During lysate production, the cell wall and other cellular components that are not required for	
	protein production are removed, leaving only the protein production machinery and the	
	mitochondria to drive the reaction. During our lysate completion steps, the additional	
	components needed for protein production (amino acids, cofactors, etc.) are added to produce	
	something that functions like a cell, but without the constraints of a living system - all that's	
	needed is the DNA that codes for the desired protein!	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	The buffer composition is at the discretion of the manufacturer.	
	Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.	

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	12 months	