

Datasheet for ABIN3115503

CDKAL1 Protein (AA 1-579) (Strep Tag)



Overview

Quantity:	250 μg
Target:	CDKAL1
Protein Characteristics:	AA 1-579
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDKAL1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details	
Brand:	AliCE®
Sequence:	MPSASCDTLL DDIEDIVSQE DSKPQDRHFV RKDVVPKVRR RNTQKYLQEE ENSPPSDSTI
	PGIQKIWIRT WGCSHNNSDG EYMAGQLAAY GYKITENASD ADLWLLNSCT VKNPAEDHFR
	NSIKKAQEEN KKIVLAGCVP QAQPRQDYLK GLSIIGVQQI DRVVEVVEET IKGHSVRLLG
	QKKDNGRRLG GARLDLPKIR KNPLIEIISI NTGCLNACTY CKTKHARGNL ASYPIDELVD
	RAKQSFQEGV CEIWLTSEDT GAYGRDIGTN LPTLLWKLVE VIPEGAMLRL GMTNPPYILE
	HLEEMAKILN HPRVYAFLHI PVQSASDSVL MEMKREYCVA DFKRVVDFLK EKVPGITIAT
	DIICGFPGET DQDFQETVKL VEEYKFPSLF INQFYPRPGT PAAKMEQVPA QVKKQRTKDL
	SRVFHSYSPY DHKIGERQQV LVTEESFDSK FYVAHNQFYE QVLVPKNPAF MGKMVEVDIY
	ESGKHFMKGQ PVSDAKVYTP SISKPLAKGE VSGLTKDFRN GLGNQLSSGS HTSAASQCDS
	ASSRMVLPMP RLHQDCALRM SVGLALLGLL FAFFVKVYN
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expressio

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:	CDKAL1
Alternative Name:	CDKAL1 (CDKAL1 Products)
Background:	Threonylcarbamoyladenosine tRNA methylthiotransferase (EC 2.8.4.5) (CDK5 regulatory subunit-associated protein 1-like 1) (tRNA-t(6)A37 methylthiotransferase),FUNCTION: Catalyzes the methylthiolation of N6-threonylcarbamoyladenosine (t(6)A), leading to the formation of 2-methylthio-N6-threonylcarbamoyladenosine (ms(2)t(6)A) at position 37 in tRNAs that read codons beginning with adenine. {ECO:0000250 UniProtKB:Q91WE6}.
Molecular Weight:	65.1 kDa
UniProt:	Q5VV42
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 Advice:	Avoid repeated freeze-thaw cycles.

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months