Datasheet for ABIN3089368

ARID4A Protein (AA 1-1257) (Strep Tag)

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1 Image

Overview

Quantity:	1 mg
Target:	ARID4A
Protein Characteristics:	AA 1-1257
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARID4A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MKAADEPAYL TVGTDVSAKY RGAFCEAKIK TVKRLVKVKV LLKQDNTTQL VQDDQVKGPL RVGAIVETRT SDGSFQEAII SKLTDASWYT VVFDDGDERT LRRTSLCLKG ERHFAESETL DQLPLTNPEH FGTPVIAKKT NRGRRSSLPV TEDEKEEESS EEEDEDKRRL NDELLGKVVS VVSATERTEW YPALVISPSC NDDITVKKDQ CLVRSFIDSK FYSIARKDIK EVDILNLPES ELSTKPGLQK ASIFLKTRVV PDNWKMDISE ILESSSSDDE DGPAEENDEE KEKEAKKTEE EVPEEELDPE ERDNFLQQLY KFMEDRGTPI NKPPVLGYKD LNLFKLFRLV YHQGGCDNID SGAVWKQIYM DLGIPILNSA ASYNVKTAYR KYLYGFEEYC RSANIQFRTV HHHEPKVKEE KKDLEESMEE ALKLDQEMPL TEVKSEPEEN IDSNSESERE EIELKSPRGR RRIARDVNSI KKEIEEEKTE DKLKDNDTEN KDVDDDYETA EKKENELLLG RKNTPKQKEK KIKKQEDSDK DSDEEEEKSQ EREETESKCD SEGEEDEEDM EPCLTGTKVK VKYGRGKTQK IYEASIKSTE IDDGEVLYLV HYYGWNVRYD EWVKADRIIW PLDKGGPKKK QKKKAKNKED SEKDEKRDEE RQKSKRGRPP LKSTLSSNMP YGLSKTANSE GKSDSCSSDS ETEDALEKNL INEELSLKDE

LEKNENLNDD KLDEENPKIS AHILKENDRT QMQPLETLKL EVGENEQIVQ IFGNKMEKTE EVKKEAEKSP KGKGRRSKTK DLSLEIIKIS SFGQNEAGSE PHIEAHSLEL SSLDNKNFSS ATEDEIDQCV KEKKLKRKIL GQSSPEKKIR IENGMEMTNT VSQERTSDCI GSEGMKNLNF EQHFERENEG MPSLIAESNQ CIQQLTSERF DSPAEETVNI PLKEDEDAMP LIGPETLVCH EVDLDDLDEK DKTSIEDVAV ESSESNSLVS IPPALPPVVQ HNFSVASPLT LSQDESRSVK SESDITIEVD SIAEESQEGL CERESANGFE TNVASGTCSI IVQERESREK GQKRPSDGNS GLMAKKQKRT PKRTSAAAKN EKNGTGQSSD SEDLPVLDNS SKCTPVKHLN VSKPQKLARS PARISPHIKD GEKDKHREKH PNSSPRTYKW SFQLNELDNM NSTERISFLQ EKLQEIRKYY MSLKSEVATI DRRRKRLKKK DREVSHAGAS MSSASSDTGM SPSSSSPPQN VLAVECR

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 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!

Product Details

	Concentration: • The concentration of our recombinant proteins is measured using the absorbance at 280nm. • The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	ARID4A
Alternative Name:	ARID4A (ARID4A Products)
Background:	AT-rich interactive domain-containing protein 4A (ARID domain-containing protein 4A) (Retinoblastoma-binding protein 1) (RBBP-1),FUNCTION: DNA-binding protein which modulates activity of several transcription factors including RB1 (retinoblastoma-associated protein) and AR (androgen receptor) (By similarity). May function as part of an mSin3A repressor complex (PubMed:14581478). Has no intrinsic transcriptional activity (By similarity). Plays a role in the regulation of epigenetic modifications at the PWS/AS imprinting center near the SNRPN promoter, where it might function as part of a complex with RB1 and ARID4B (By similarity). Involved in spermatogenesis, together with ARID4B, where it acts as a transcriptional coactivator for AR and enhances expression of genes required for sperm maturation. Regulates expression of the tight junction protein CLDN3 in the testis, which is important for integrity of the blood-testis barrier (By similarity). Plays a role in myeloid homeostasis where it regulates the histone methylation state of bone marrow cells and expression of various genes involved in hematopoiesis. May function as a leukemia suppressor (By similarity).

Target Details

	{ECO:0000250|UniProtKB:F8VPQ2, ECO:0000269|PubMed:14581478}.
Molecular Weight:	142.8 kDa
UniProt:	P29374

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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process

