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Datasheet for ABIN3136400 RSAD2 Protein (AA 1-362) (Strep Tag)



ew
ΘVV

Quantity:	1 mg
Target:	RSAD2
Protein Characteristics:	AA 1-362
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RSAD2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:	
	TQEDGNSTQP TTPVSVNYHF TRQCNYKCGF CFHTAKTSFV LPLEEAKRGL LLLKQAGLEK
	INFSGGEPFL QDRGEYLGKL VRFCKEELAL PSVSIVSNGS LIRERWFKDY GEYLDILAIS
	CDSFDEQVNA LIGRGQGKKN HVENLQKLRR WCRDYKVAFK INSVINRFNV DEDMNEHIKA
	LSPVRWKVFQ CLLIEGENSG EDALREAERF LISNEEFETF LERHKEVSCL VPESNQKMKD
	SYLILDEYMR FLNCTGGRKD PSKSILDVGV EEAIKFSGFD EKMFLKRGGK YVWSKADLKL DW
	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

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- 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!

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.
	 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:	\ge 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Product Details	
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	RSAD2
Alternative Name:	Rsad2 (RSAD2 Products)
Background:	S-adenosylmethionine-dependent nucleotide dehydratase RSAD2 (SAND) (EC 4.2) (Radical S
	adenosyl methionine domain-containing protein 2) (Virus inhibitory protein, endoplasmic
	reticulum-associated, interferon-inducible) (Viperin),FUNCTION: Interferon-inducible antiviral
	protein which plays a major role in the cell antiviral state induced by type I and type II interferon
	Catalyzes the conversion of cytidine triphosphate (CTP) to 3'-deoxy-3',4'-didehydro-CTP
	(ddhCTP) via a SAM-dependent radical mechanism. In turn, ddhCTP acts as a chain terminator
	for the RNA-dependent RNA polymerases from multiple viruses and directly inhibits viral
	replication. Therefore, inhibits a wide range of DNA and RNA viruses (By similarity). Promotes
	also TLR7 and TLR9-dependent production of IFN-beta production in plasmacytoid dendritic
	cells (pDCs) by facilitating 'Lys-63'-linked ubiquitination of IRAK1 by TRAF6. Plays a role in CD4-
	T-cells activation and differentiation. Facilitates T-cell receptor (TCR)-mediated GATA3
	activation and optimal T-helper 2 (Th2) cytokine production by modulating NFKB1 and JUNB
	activities. Can inhibit secretion of soluble proteins (By similarity) (PubMed:17686841,
	PubMed:19047684, PubMed:21435586, PubMed:21880757).
	{EC0:0000250 UniProtKB:Q8WXG1, EC0:0000269 PubMed:17686841,
	EC0:0000269 PubMed:19047684, EC0:0000269 PubMed:21435586,
	ECO:0000269 PubMed:21880757}.
Molecular Weight:	41.5 kDa
UniProt:	Q8CBB9
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process,
	Production of Molecular Mediator of Immune Response
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.

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Application Details 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)