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Datasheet for ABIN3127982 Akirin 1 Protein (AKIRIN1) (AA 1-191) (Strep Tag)



Overview

Quantity:	1 mg
Target:	Akirin 1 (AKIRIN1)
Protein Characteristics:	AA 1-191
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Akirin 1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)
Product Details	
Sequence:	MACGATLKRP MEFEAALLSP GSPKRRRCAP LPGPTPGLRP PDAEPPPLQM QTPPASLQQP
	APPGSERRLP TPEQIFQNIK QEYNRYQRWR HLEVVLSQSE ACTSETQPSS SALTAPGSPG
	AFWMKKDQPT FTLRQVGIIC ERLLKDYEDK VREEYEQILS TKLAEQYESF VKFTHDQIMR
	RYGTRPTSYV S
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	avatem a different complexity of the protein could make another tog personny. In case you
	system, a different complexity of the protein could make another tag necessary. In case you
	have a special request, please contact us.
Characteristics:	
Characteristics:	have a special request, please contact us.

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• 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.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)		
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.	Purification:	
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.		
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Product Details

Grade:

Crystallography grade

Target Details

Target:	Akirin 1 (AKIRIN1)
Alternative Name:	Akirin1 (AKIRIN1 Products)
Background:	Akirin-1 (protein mighty),FUNCTION: Molecular adapter that acts as a bridge between proteins,
	and which is involved skeletal muscle development (PubMed:18255059, PubMed:19406121,
	PubMed:30746755). Functions as a signal transducer for MSTN during skeletal muscle
	regeneration and myogenesis (PubMed:18255059, PubMed:19406121). May regulate
	chemotaxis of both macrophages and myoblasts by reorganising actin cytoskeleton, leading to
	more efficient lamellipodia formation via a PI3 kinase dependent pathway (PubMed:19406121).
	In contrast to AKIRIN2, not involved in nuclear import of proteasomes (By similarity).
	{ECO:0000250 UniProtKB:Q9H9L7, ECO:0000269 PubMed:18255059,
	ECO:0000269 PubMed:19406121, ECO:0000269 PubMed:30746755}.
Molecular Weight:	21.7 kDa
UniProt:	Q99LF1
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

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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)