

Datasheet for ABIN3087996 14-3-3 sigma/SFN Protein (AA 1-248) (Strep Tag)



Overview

Quantity:	1 mg
Target:	14-3-3 sigma/SFN (SFN)
Protein Characteristics:	AA 1-248
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This 14-3-3 sigma/SFN protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA
Product Details	
Sequence:	MERASLIQKA KLAEQAERYE DMAAFMKGAV EKGEELSCEE RNLLSVAYKN VVGGQRAAWR
	VLSSIEQKSN EEGSEEKGPE VREYREKVET ELQGVCDTVL GLLDSHLIKE AGDAESRVFY
	LKMKGDYYRY LAEVATGDDK KRIIDSARSA YQEAMDISKK EMPPTNPIRL GLALNFSVFH
	YEIANSPEEA ISLAKTTFDE AMADLHTLSE DSYKDSTLIM QLLRDNLTLW TADNAGEEGG
	EAPQEPQS
	EAPQEPQS Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
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Characteristics:	EAPQEPQS 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. 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

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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 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:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target:	14-3-3 sigma/SFN (SFN)
Alternative Name:	SFN (SFN Products)
Background:	14-3-3 protein sigma (Epithelial cell marker protein 1) (Stratifin),FUNCTION: Adapter protein
	implicated in the regulation of a large spectrum of both general and specialized signaling

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	pathways (PubMed:15731107, PubMed:22634725, PubMed:28202711, PubMed:37797010).
	Binds to a large number of partners, usually by recognition of a phosphoserine or
	phosphothreonine motif (PubMed:15731107, PubMed:22634725, PubMed:28202711,
	PubMed:37797010). Binding generally results in the modulation of the activity of the binding
	partner (PubMed:15731107, PubMed:22634725, PubMed:28202711, PubMed:37797010).
	Promotes cytosolic retention of GBP1 GTPase by binding to phosphorylated GBP1, thereby
	inhibiting the innate immune response (PubMed:37797010). Also acts as a TP53/p53-regulated
	inhibitor of G2/M progression (PubMed:9659898). When bound to KRT17, regulates protein
	synthesis and epithelial cell growth by stimulating Akt/mTOR pathway (By similarity). May also
	regulate MDM2 autoubiquitination and degradation and thereby activate p53/TP53
	(PubMed:18382127). {ECO:0000250 UniProtKB:070456, ECO:0000269 PubMed:15731107,
	ECO:0000269 PubMed:18382127, ECO:0000269 PubMed:22634725,
	EC0:0000269 PubMed:28202711, EC0:0000269 PubMed:37797010,
	ECO:0000269 PubMed:9659898}.
Molecular Weight:	27.8 kDa
UniProt:	P31947
Pathways:	p53 Signaling, Myometrial Relaxation and Contraction
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)