

Datasheet for ABIN3135264

## SIN3A Protein (AA 1-1274) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	SIN3A
Protein Characteristics:	AA 1-1274
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIN3A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MKRRLLDDQES PVYAAQRRRI PGSTEAFSHQ HRVLAPAPPV YEAVSETMQS ATGIQYSVAP</p> <p>NYQVSAVPQS SGSHGPAIAA VHSSHHHPTA VQPHGGQVVQ SHAHPAPPVA PVQGQQQFQR</p> <p>LKVEDALSYL DQVKLQFGSQ PQVYNDFLDI MKEFKSQSID TPGVISRVSQ LFKGHPDLIM</p> <p>GFNTFLPPGY KIEVQTNDMV NVTPGQVHQ IPTHGIQPQP QPPQHPSQP SSQSAPTPAQ</p> <p>PAPQPTAAKV SKPSQLQAHT PASQQTPLP PYASPRSPV QPHTPVTISL GTAPSLQNNQ</p> <p>PVEFNHAINY VNKIKNRFQG QPDIYKAFLE ILHTYQKEQR NAKEAGGNYT PALTEQEVYA</p> <p>QVARLFKNQE DLLSEFGQFL PDANSSVLLS KTTAEKVDSV RNDHGGTVKK PQLNNKPQRP</p> <p>SQNGCQIRRH SGTGATPPVK KKPKLMSLKE SSMADASKHG VGTESLFFDK VRKALRSAEA</p> <p>YENFLRCLVI FNQEVISRAE LVQLVSPFLG KPELFNWFK NFLGYKESVH LESFPKERAT</p> <p>EGIAMIDYA SCKRLGSSYR ALPKSYQQPK CTGRTPLCKE VLNDTWVSFP SWSEDSTFVS</p> <p>SKKTQYEEHI YRCEDERFEL DVVLETNLAT IRVLEAIQKK LSRLSAEEQA KFRLDNTLGG</p>

TSEVIHRKAL QRIYADKAAD IIDGLRKNPS IAVPIVLKRL KMKEEWEWREA QRGFNKVVWRE  
QNEKYYLKSL DHQGINFKQN DTKVLRKSL LNEIESIYDE RREQATEENA GVPVGPLSL  
AYEDKQILED AAALIIHHVK RQTGIQKEDK YKIKQIMHHF IPDLLFAQRG DLSDVEEEEE  
EEMDVDEATG APKKHNGVGG SPPKSKLLFS NTAAQKLGRM DEVYNLFYVN NNWYIFMRLH  
QILCLRLRI CSQAERQIEE ENREREWERE VLGIKRDKSD SPAIQLRLKE PMDVDVEDYY  
PAFLDMVRSL LDGNIDSSQY EDSLREMFTI HAYIAFTMDK LIQSIVRQLQ HIVSDEVCVQ  
VTDLYLAENN NGATGGQLNS QTSRSLLESA YQRKAEQLMS DENCFLMFI QSQQVQLTV  
ELLDTEEENS DDPVEAERWS DYVERYMSSD TTSPELREHL AQKPVFLPRN LRRIRKCQRG  
REQQEKEGKE GNSKKTMENTV ESLDKLECRF KLNSYKMVYV IKSEDYMYRR TALLRAHQSH  
ERVSKRLHQR FQAWVDKWTG EHVPREMAAE TSKWLMGEGL EGLVPCTTTC DTETLHFVSI  
NKYRVKYGTG FKAP

**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.**

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### 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 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 -

## Product Details

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:	SIN3A
Alternative Name:	Sin3a ( <a href="#">SIN3A Products</a> )
Background:	<p>Paired amphipathic helix protein Sin3a (Histone deacetylase complex subunit Sin3a) (Transcriptional corepressor Sin3a),FUNCTION: Acts as a transcriptional repressor. Corepressor for REST. Interacts with MXI1 to repress MYC responsive genes and antagonize MYC oncogenic activities. Also interacts with MXD1-MAX heterodimers to repress transcription by tethering SIN3A to DNA. Acts cooperatively with OGT to repress transcription in parallel with histone deacetylation. Involved in the control of the circadian rhythms. Required for the transcriptional repression of circadian target genes, such as PER1, mediated by the large PER complex through histone deacetylation. Cooperates with FOXK1 to regulate cell cycle progression probably by repressing cell cycle inhibitor genes expression (PubMed:22476904). Required for cortical neuron differentiation and callosal axon elongation (PubMed:27399968). {ECO:0000269 PubMed:10734093, ECO:0000269 PubMed:21680841, ECO:0000269 PubMed:22476904, ECO:0000269 PubMed:27399968, ECO:0000269 PubMed:7889570, ECO:0000269 PubMed:8649810}.</p>
Molecular Weight:	145.1 kDa
UniProt:	<a href="#">Q60520</a>
Pathways:	<a href="#">Activation of Innate immune Response</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Chromatin Binding</a> , <a href="#">Regulation of Lipid Metabolism by PPARalpha</a>

## 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.

**Storage:** -80 °C

**Storage Comment:** Store at -80°C.

**Expiry Date:** 12 months