

Datasheet for ABIN3095457
SIN3A Protein (AA 1-1273) (Strep Tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	SIN3A
Protein Characteristics:	AA 1-1273
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIN3A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MKRRLLDDQES PVYAAQRRRI PGSTEAFFPHQ HRVLAPAPPV YEAVSETMQS ATGIQYSVTP SYQVSAMPQS SGSHGPAIAA VHSSHHHPTA VQPHGGQVVQ SHAHPAPPVA PVQGQQQFQR LKVEDALSYL DQVKLQFGSQ PQVYNDFLDI MKEFKSQSID TPGVISRVSQ LFKGHPDLIM GFNTFLPPGY KIEVQTNDMV NVTTPGQVHQ IPTHGIQPQP QPPQHPSQP SAQSAPAPAQ PAPQPPPAKV SKPSQLQAHT PASQQTPPLP PYASPRSPPV QPHTPVTISL GTAPSLQNNQ PVEFNHAINY VNKIKNRFQG QPDIYKAFLE ILHTYQKEQR NAKEAGGNYT PALTEQEVYA QVARLFKNQE DLLSEFGQFL PDANSSVLLS KTTAEKVDSV RNDHGGTVKK PQLNNKPQRP SQNGCQIRRH PTGTTTPPVKK KPKLLNLKDS SMADASKHGG GTESLFFDKV RKALRSAEAY ENFLRCLVIF NQEVISRAEL VQLVSPFLGK FPELFNWFKN FLGYKESVHL ETYPKERATE GIAMEIDYAS CKRLGSSYRA LPKSYQQPKC TGRTPLCKEV LNDTWVSFPS WSEDSTFVSS KKTQYEEHIY RCEDERFELD VVLETNLATI RVLEAIQKKL SRLSAEEQAK FRLDNTLGGT SEVIHRKALQ RIYADKAADI IDGLRKNPSI AVPIVLKRLK MKEEEWREAQ RGFNKNVWREQ
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NEKYYLKSLD HQGINFKQND TKVLRSKSLL NEIESIYDER QEQATEENAG VPGPHLSLA
YEDKQILED AALIIHHVKR QTGIQKEDKY KIKQIMHHFI PDLLFAQRGD LSDVEEEEE
EMDVDEATGA VKKHNGVGG SPPKSKLLFSN TAAQKLRGMD EVYNLFYVNN NWWYIFMRLHQ
ILCLRLLRIC SQAERQIEEE NREREWEREV LGIKRDKSDS PAIQLRLKEP MDVDVEDYYP
AFLDMVRSLL DGNIDSSQYE DSLREMFTIH AYIAFTMDKL IQSIVRQLQH IVSDEICVQV
TDLYLAENNN GATGGQLNTQ NSRSLLESTY QRKAEQLMSD ENCFKLMFIQ SQGQVQLTIE
LLDTEEENS DDPVEAERWSD YVERYMNSDT TSPELREHLA QKPVFLPRNL RRIRKCQRGR
EQQEKEGKEG NSKKT MENVD SLDKLECRFK LNSYKMYVVI KSEDYMYRRT ALLRAHQ SHE
RVSKRLHQR FQAWVDKWTKE HVPREMAAET SKWLMGEGLE GLVPCTTTCD TETLHFVSIN
KYRVKYGTVF KAP

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 -

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 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:	SIN3A
Alternative Name:	SIN3A (SIN3A Products)
Background:	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 (By similarity). Required for cortical neuron differentiation and callosal axon elongation (By similarity). {ECO:0000250 UniProtKB:Q60520, ECO:0000269 PubMed:12150998}.

Target Details

Molecular Weight:	145.2 kDa
UniProt:	Q96ST3
Pathways:	Activation of Innate immune Response , Carbohydrate Homeostasis , Chromatin Binding , Regulation of Lipid Metabolism by PPARalpha

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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