

Datasheet for ABIN3135264
SIN3A Protein (AA 1-1274) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	SIN3A
Protein Characteristics:	AA 1-1274
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIN3A protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MKRRLLDDQES PVYAAQRRRI PGSTEAFFSHQ HRVLAPAPPV YEAVSETMQS ATGIQYSVAP NYQVSAVPQS SGSHGPAIAA VHSSHHHPTA VQPHGGQVVQ SHAHPAPPVA PVQGQQQFQR LKVEDALSYL DQVKLQFGSQ PQVYNDFLDI MKEFKSQSID TPGVISRVSQ LFKGHPDLIM GFNTFLPPGY KIEVQTNDMV NVTPGQVHQ IPTHGIQPQP QPPQHPSQP SSQSAPTPAQ PAPQPTAAKV SKPSQLQAHT PASQQTPLPL PYASPRSPPV QPHTPVTISL GTAPSLQNNQ PVEFNHAINY VNKIKNRFQG QPDIYKAFLE ILHTYQKEQR NAKEAGGNYT PALTEQEVYA QVARLFKNQE DLLSEFGQFL PDANSSVLLS KTTAEKVDSV RNDHGGTVKK PQLNNKPQRP SQNGCQIRRH SGTGATPPVK KKPCLMSLKE SSMADASKHG VGTESLFFDK VRKALRSAEA YENFLRCLVI FNQEVISRAE LVQLVSPFLG KPELFNWFK NFLGYKESVH LESFPKERAT EGIAEIDYA SCKRLGSSYR ALPKSYQQPK CTGRTPLCKE VLNDTWVSFP SWSEDSTFVS SKKTQYEEHI YRCEDERFEL DVVLETNLAT IRVLEAIQKK LSRLSAEEQA KFRLDNTLGG TSEVIHRKAL QRIYADKAAD IIDGLRKNPS IAVPIVLKRL KMKEEWREA QRGFNKVWRE
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QNEKYYLKSL DHQGINFKQN DTKVLRSKSL LNEIESIYDE RQEQATEENA GVPVGP HLSL
AYEDKQILED AAALIIHHVK RQTGIQKEDK YKIKQIMHHF IPDLLFAQRG DLSDVEEEEE
EEMDVDEATG APKKHNGVGG SPPKSKLLFS NTAAQKL RGM DEVYNLFYVN NNWYIFMRLH
QILCLRLRI CSQAERQIEE ENREREWERE VLGKRD KSD SPAIQLRLKE PMDVEDVYY
PAFLDMVRSL LDGNIDSSQY EDSLREMTI HAYIAFTMDK LIQSIVRQLQ HIVSDEV CVQ
VTDLYLAENN NGATGGQLNS QTSRSLLESA YQRKAEQLMS DENC FKL MFI QSQGQVQLTV
ELLDTEEENS DDPVEAERWS DYVERYMSSD TTSP ELREHL AQKPVFLPRN LRRIRK CQRG
REQQEKEGKE GNSKKT MENV ESLDKLECRF KLNSYKM VYV IKSEDYMYRR TALLRAHQSH
ERVSKRLHQR FQAWVDK WTK EHVPREMAAE TSKWLMGEGL EGLVPCTTTC DTETLHFVSI
NKYRVKYGT V FKAP

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Sin3a Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three

Product Details

- different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	SIN3A
Alternative Name:	Sin3a (SIN3A Products)
Background:	<p>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.</p> <p>{ECO:0000269 PubMed:10734093, ECO:0000269 PubMed:21680841, ECO:0000269 PubMed:7889570, ECO:0000269 PubMed:8649810}.</p>
Molecular Weight:	146.0 kDa Including tag.
UniProt:	Q60520
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:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher

Application Details

molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process