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Datasheet for ABIN7563862

SIN3A Protein (AA 1-1274) (His tag)

Overview

Quantity:	1 mg
Target:	SIN3A
Protein Characteristics:	AA 1-1274
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIN3A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Sin3a Protein expressed in mammalian cells.
Sequence:	MKRRLLDDQES PVYAAQRRRI PGSTEAFFSHQ HRVLAPAPPV YEAVSETMQS ATGIQYSVAP NYQVSAVPQS SGSHGPAIAA VHSSHHHPTA VQPHGGQVVQ SHAHPAPPVA PVQGQQQFQR LKVEDALSYL DQVKLQFGSQ PQVYNDFLDI MKEFKSQSID TPGVISRVSQ LFKGHPDLIM GFNTFLPPGY KIEVQTNMNV NVTTPGQVHQ IPTHGIQPQP QPPPQHPSQP SSQSAPTPAQ PAPQPTAAKV SKPSQLQAHT PASQQTPLP PYASPRSPV QPHTPVTISL GTAPSLQNNQ PVEFNHAINY VNKIKNRFQG QPDIYKAFLE ILHTYQKEQR NAKEAGGNYT PALTEQEVYA QVARLFKNQE DLLSEFGQFL PDANSSVLLS KTTAEKVDSV RNDHGGTVKK PQLNNKPQRP SQNGCQIRRH SGTGATPPVK KKPCLMSLKE SSMADASKHG VGTESLFFDK VRKALRSAEA YENFLRCLVI FNQEISRAE LVQLVSPFLG KPELFWFK NFLGKESVH LESFPKERAT EGIAMEIDYA SCKRLGSSYR ALPKSYQQPK CTGRTPLCKE VLNDTWVSFP SWSEDSTFVS SKKTQYEEHI YRCEDERFEL DVVLETNLAT IRVLEAIQKK LSRLSAEEQA KFRLDNTLGG

TSEVIHRKAL QRIYADKAAD IIDGLRKNPS IAVPIVLKRL KMKEEEWREA QRGFNKVVRE
QNEKYYLKSL DHQGINFKQN DTKVLRKSL LNEIESIYDE RQEQATEENA GVPVGPLLSL
AYEDKQILED AAALIIHHVK RQTGIQKEDK YKIKQIMHHF IPDLLFAQRG DLSDVEEEEE
EEMDVDEATG APKKHNGVGG SPPKSKLLFS NTAQKLRGM DEVYNLFYVN NNWYIFMRLH
QILCLRLRI CSQAERQIEE ENREREWERE VLGIKRDKSD SPAIQLRLKE PMDVEDVYY
PAFLDMVRSR LDGNIDSSQY EDSLREMTI HAYIAFTMDK LIQSIVRQLQ HIVSDEVCVQ
VTDLYLAENN NGATGGQLNS QTSRSLLESA YQRKAEQLMS DENCFKLMFI QSQGQVQLTV
ELLDTEEENS DDPVEAERWS DYVERYMSSD TTSPREHL AQKPVFLPRN LRRIRKCQRG
REQQEKEGKE GNSKKTMENTV ESLDKLECRF KLNSYKMYVYV IKSEDYMYRR TALLRAHQSH
ERVSKRLHQR FQAWVDKWK EHVPREMAAE TSKWLMGEGL EGLVPCCTTC DTETLHFVSI
NKYRVKYGTV FKAP **Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

SIN3A

Alternative Name:

Sin3a ([SIN3A Products](#))

Target Details

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 (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}.

Molecular Weight: 145.1 kDa

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months