Datasheet for ABIN7555483

SIN3B Protein (AA 1-1162) (His tag)

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Overview

Quantity:	1 mg
Target:	SIN3B
Protein Characteristics:	AA 1-1162
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIN3B protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SIN3B Protein expressed in mammalian cells.
Sequence:	MAHAGGGSGG SGAGGPAGRG LSGARWGRSG SAGHEKLPVH VEDALTYLDQ VKIRFGSDPA TYNGFLEIMK EFKSQSIDTP GVIRRVSQLF HEHPDLIVGF NAFLPLGYRI DIPKNGKLNI QSPLTSQENS HNHGDGAEDF KQQVPYKEDK PQVPLESDSV EFNNAISYVN KIKTRFLDHP EIYRSFLEIL HTYQKEQLNT RGRPFRGMSE EEVFTEVANL FRGQEDLLSE FGQFLPEAKR SLFTGNGPCE MHSVQKNEHD KTPEHSRKRS RPSLLRPVSA PAKKKMKLRG TKDLSIAAVG KYGTLQEFSF FDKVRRVLKS QEVYENFLRC IALFNQELVS GSELLQLVSP FLGKFPELFA QFKSFLGVKE LSFAPPMSDR SGDGISREID YASCKRIGSS YRALPKTYQQ PKCSGRTAIC KELDHWTLLQ GSWTDDYCMS KFKNTCWIPG YSAGVLNDTW VSFPSWSEDS TFVSSKKTPY EEQLHRCEDE RFELDVVLET NLATIRVLES VQKKLSRMAP EDQEKFRLDD SLGGTSEVIQ RRAIYRIYGD KAPEIIESLK KNPVTAVPVV LKRLKAKEEE WREAQQGFNK IWREQYEKAY LKSLDHQAVN FKQNDTKALR SKSLLNEIES VYDEHQEQHS EGRSAPSSEP HLIFVYEDRQ ILEDAAALIS YYVKRQPAIQ KEDQGTIHQL LHQFVPSLFF SQQLDLGASE ESADEDRDSP

Product Details

	QGQTTDPSER KKPAPGPHSS PPEEKGAFGD APATEQPPLP PPAPHKPLDD VYSLFFANNN WYFFLRLHQT LCSRLLKIYR QAQKQLLEYR TEKEREKLLC EGRREKGSDP AMELRLKQPS EVELEEYYPA FLDMVRSLLE GSIDPTQYED TLREMFTIHA YVGFTMDKLV QNIARQLHHL VSDDVCLKVV ELYLNEKKRG AAGGNLSSRC VRAARETSYQ WKAERCMADE NCFKVMFLQR KGQVIMTIEL LDTEEAQTED PVEVQHLARY VEQYVGTEGA SSSPTEGFLL KPVFLQRNLK KFRRRWQSEQ ARALRGEARS SWKRLVGVES ACDVDCRFKL STHKMVFIVN SEDYMYRRGT LCRAKQVQPL VLLRHHQHFE EWHSRWLEDN VTVEAASLVQ DWLMGEEDED MVPCKTLCET VHVHGLPVTR YRVQYSRRPA SP **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	SIN3B
Alternative Name:	SIN3B (SIN3B Products)
Background:	Paired amphipathic helix protein Sin3b (Histone deacetylase complex subunit Sin3b)

Target Details

	(Transcriptional corepressor Sin3b),FUNCTION: Acts as a transcriptional repressor. Interacts with MXI1 to repress MYC responsive genes and antagonize MYC oncogenic activities. Interacts with MAD-MAX heterodimers by binding to MAD. The heterodimer then represses transcription by tethering SIN3B to DNA. Also forms a complex with FOXK1 which represses transcription. With FOXK1, regulates cell cycle progression probably by repressing cell cycle inhibitor genes expression. As part of the SIN3B complex represses transcription and counteracts the histone acetyltransferase activity of EP300 through the recognition H3K27ac marks by PHF12 and the activity of the histone deacetylase HDAC2 (PubMed:37137925). SIN3B complex is recruited downstream of the constitutively active genes transcriptional start sites through interaction with histones and mitigates histone acetylation and RNA polymerase II progression within transcribed regions contributing to the regulation of transcription (PubMed:21041482). {ECO:0000250|UniProtKB:Q62141, ECO:0000269|PubMed:21041482, ECO:0000269|PubMed:37137925}.
Molecular Weight:	133.1 kDa
UniProt:	O75182

Application Details

Application Notes:	We expect the protein to work for functional studies. 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