Datasheet for ABIN3137324

SART3 Protein (AA 2-962) (His tag)

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Overview

Quantity:	1 mg
Target:	SART3
Protein Characteristics:	AA 2-962
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SART3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence:	ATTAASSASE PEVEPQAGPE AEGEEDEAKP AGVQRKVLSG AVAAEAAEAK GPGWDLQREG ASGSDGDEED AMASSAESSA GEDEWEYDEE EEKNQLEIER LEEQLSINGY DYNCHVELIR LLRLEGELSR VRAARQKMSE LFPLTEELWL EWLHDEISMA MDGLDREHVY ELFERAVKDY ICPNIWLEYG QYSVGGIGQK GGLEKVRSVF ERALSSVGLH MTKGLAIWEA YREFESAIVE AARLEKVHSL FRRQLAIPLY EMEATFAEYE EWSEEPMPES VLQSYQKALG QLEKYKPYEE ALLQAEAPRL AEYQAYIDFE MKIGDPARIQ LIFERALVEN CLVPDLWIRY SQYLDRQLKV KDLVLSVHSR AVRNCPWTVA LWSRYLLAME RHGLDHQTIS ATFENALSAG FIQATDYVEI WQVYLDYLRR RVDFRQDSSK ELEELRSMFT RALEYLQQEV EERFSESGDP SCLIMQSWAR VEARLCNNMQ KARELWDSIM TRGNAKYANM WLEYYNLERA HGDTQHCRKA LHRAVQCTSD YPEHVCEVLL TMERTEGTLE DWDLAIQKTE TRLARVNEQR MKAAEKEAAL VQQEEEKAEQ RKKVRAEKKA LKKKKKTRGA DKRREDEDEE NEWGEEEEEQ PSKRRRTENS LASGEASAMK EETELSGKCL TIDVGPPSKQ KEKAASLKRD MPKVAHDSSK DSVTVFVSNL PYSIEEPEVK

	LRPLFEVCGE VVQIRPIFSN RGDFRGYCYV EFGEEKSAQQ ALELDRKIVE GRPMFVSPCV DKSKNPDFKV FRYSTTLEKH KLFISGLPFS CTKEELEDIC KAHGTVKDLR LVTNRAGKPK GLAYVEYENE SQASQAVMKM DGMTIRENVI KVAISNPPQR KVPEKPEVRT APGAPMLPRQ MYGARGKGRT QLSLLPRALQ RQGAAPQAEN GPAPGPAVAP SVATEAPKMS NADFAKLLLR K **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 Sart3 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 receival 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 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.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	SART3
Alternative Name:	Sart3 (SART3 Products)
Background:	U6 snRNP-binding protein that functions as a recycling factor of the splicing machinery. Promotes the initial reassembly of U4 and U6 snRNPs following their ejection from the spliceosome during its maturation. Also binds U6atac snRNPs and may function as a recycling factor for U4atac/U6atac spliceosomal snRNP, an initial step in the assembly of U12-type spliceosomal complex. The U12-type spliceosomal complex plays a role in the splicing of introns with non-canonical splice sites. May also function as a substrate-targeting factor for deubiquitinases like USP4 and USP15. Recruits USP4 to ubiquitinated PRPF3 within the U4/U5/U6 tri-snRNP complex, promoting PRPF3 deubiquitination and thereby regulating the spliceosome U4/U5/U6 tri-snRNP spliceosomal complex disassembly. May also recruit the deubiquitinase USP15 to histone H2B and mediate histone deubiquitination, thereby regulating gene expression and/or DNA repair (By similarity). May play a role in hematopoiesis probably through transcription regulation of specific genes including MYC (PubMed:21447833). {ECO:0000250|UniProtKB:Q15020, ECO:0000269|PubMed:21447833}.
Molecular Weight:	110.4 kDa Including tag.
UniProt:	Q9JLI8
Pathways:	Ribonucleoprotein Complex Subunit Organization

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 gurantee 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 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.

Application Details

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)

