

Datasheet for ABIN3136224

ARID5B Protein (AA 1-1188) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	ARID5B
Protein Characteristics:	AA 1-1188
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARID5B protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MEPNSLQWVG SPCGLHGPYI FYKAFQFHLE GKPRILSLGD FFFVRCTPKD PICIAELQLL WEERTSRQLL SSSKLYFLPE DTPQGRNSDH GEDEVIAVSE KVIVKLEDLV KWAHSDFSQW RCGLRATPVK TEAFGRNGQK EALLRYRQST LNSGLNFKDV LKEKADLGED EEETNVIVLS YPQYCRYRSM LKRIQDKPSS ILTDQFALAL GGIAVVS RNP QILYCRDTFD HPTLIENESV CDEFAPNLKG RPRKKKTC PQ RRDSFSGSKD PNNNCDGKVI SKVKGEARSA LTKPKNNHNN CKKTSNEEK P KLSIGEECRA DEQAFLVALY KYMKERKTPI ERIPYLGFKQ INLWTMFQAA QKLGGYETIT ARRQWKHIYD ELGGNPGSTS AATCTRRHYE RLILPYERFI KGEEDKPLPP IKPRKQENNT QENENKTKVS GNKRIKQEMA KNKKEKENTP KPQDTSEVSS EQRKEEETLN HKSAPPLPA PEVKGKPEGH KDLGARAPVS RADPEKANET DQGSNSEKEA EEMGDKGLAP LLSPPLPPE KDSAPTPGAG KQPLASPSTQ MDSKQEA KPC CFTESPEKDL QGAPFSSFSA TKPPLTSQNE AEEEQLPATA NYIANCTVKV DQLGSDDIHT ALKQTPKVLV VQSFDMFKDK DLTGPMNENH GLNYTPLLYS RGNPGIMSPL AKKKLLSQVS GASLSSSYPY GSPPLISKK
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KLIAREDLCGSLSQGHHSQS SDHTAVSRPS VIQHVQSFKN KASEDRKSIN DIFKHDKLSR
SDAHRGCGFSK HQLGSLADSY ILKQETQEGK DKLLEKRAVS HAHVPSFLAD FYSSPHLHSL
YRHTEHHLHN EQSSKYAARD AYQESENGAF LSHKHPEKIH VNYLASLHLQ DKKVAAAAS
TDDQPTDLSL PKNPHKLTSL VLGLAHSTSG SQEIKGASQF QVVSNQSRDC HPKACRVSPM
TMSGPKKYPE SLARSGKPHQ VRLENFRKME GMVHPILHRK MSPQNIGAAR PIKRSLEDLD
LVIAGKKARA VSPLDPAKEA SGKEKASEQE SEGNKGAYGG HSGAASEGHK LPLSTPIFPG
LYSGSLCNSG LNSRLPAGYS HSLQYLKNQT VLSPLMQPLA FHSLVMQRGI FTSPTNSQQL
YRHAAATPV GSSYGDLLHN SIYPLAGINP QAAFSSQLS SVHPSTKL

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 Arid5b 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 different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.

Product Details

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: ARID5B

Alternative Name: Arid5b ([ARID5B Products](#))

Background: Transcription coactivator that binds to the 5'-AATA[CT]-3' core sequence and plays a key role in adipogenesis and liver development. Acts by forming a complex with phosphorylated PHF2, which mediates demethylation at Lys-337, leading to target the PHF2-ARID5B complex to target promoters, where PHF2 mediates demethylation of dimethylated 'Lys-9' of histone H3 (H3K9me2), followed by transcription activation of target genes. The PHF2-ARID5B complex acts as a coactivator of HNF4A in liver (By similarity). Required for adipogenesis: regulates triglyceride metabolism in adipocytes by regulating expression of adipogenic genes. Overexpression leads to induction of smooth muscle marker genes, suggesting that it may also act as a regulator of smooth muscle cell differentiation and proliferation. {ECO:0000250, ECO:0000269|PubMed:12215486, ECO:0000269|PubMed:14651970, ECO:0000269|PubMed:17962384, ECO:0000269|PubMed:18070594, ECO:0000269|PubMed:19913508}.

Molecular Weight: 132.8 kDa Including tag.

UniProt: [Q8BM75](#)

Pathways: [Platelet-derived growth Factor Receptor Signaling](#)

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.

Application Details

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.

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