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Datasheet for ABIN3134720

## SMARCC1 Protein (AA 1-1104) (His tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	SMARCC1
Protein Characteristics:	AA 1-1104
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMARCC1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB), Crystallization (Crys)

#### Product Details

Sequence: MAATAGGGPG AAAGAVGAGG AAAASGLAVY RRKDGGPASK FWESPDTVSQ LDSVRVWLK  
 HYKKYVHADA PTNKTLAGLV VQLLQFQEDA FGKHVTNPAF TKLPAKCFMD FKAGGTLCHI  
 LGAAYKYKNE QGWRRFDLQN PSRMDRNVEM FMNIEKTLVQ NNCLTRPNIY LIPDIDLKLA  
 NKLKDIKRH QGTFTEDEKSK ASHHIYPYPS SQEDEEWLRP VMRRDKQVLV HWGFYPDSYD  
 TWVHSNDVDA EIEDAPIPEK PWKVHVWIL DTDVFNEWMN EEDYEVNENR KPVSRQRIS  
 TKNEEPVRSR ERRDRKASAN SRKRKPSPP PPPTATESRK KSGKKQASL YGKRRSQKEE  
 DEQEDLTKDM EDPTVPVNI E VVLPKVNVP KKDSENTPVK GGTVDLDEQ DEEAVTTGGK  
 EDEDPSKGD P SRSVDPGEDN VTEQTNHIII PSYASWFDYN CIHVIERRAL PEFNGKNKS  
 KTPEIYLAYR NFMIDTYRLN PQEYLTSTAC RRNLTDVCA VMRVHAFLEQ WGLVNYQVDP  
 ESRPMAMGPP PTPHFNVLD TPSGLVPLHL RSPQVAAQ MLNFPEKNKE KPIDLQNFGL  
 RTDIYSKKT L AKSKGASAGR EWTEQETLLL LEALEMYKDD WNKVSEHVG S RTQDECILHF  
 LRLPIEDPYL ENSDASLGPL AYQVPVFSQS GNPVMSTVAF LASVVDPRVA SAAAKAAL E E

FSRVREEVPL ELVEAHVKKV QEAAASGKV DPTYGLESSC IAGTGPDEPE KLEGSEEEKM  
ETDPDGQQPE KAENKVENES DEGDKIQDRE NEKNTEKEQD SDVSEDVKPE EKENEENKEL  
TDTCKERESD AGKKKVEHEI SEGNVATAAA AALASAATKA KHLAAVEERK IKSLVALLVE  
TQMKKLEIKL RHFELETIM DREKEALEQQ RQQLLTERQN FHMEQLKYAE LRARQQMEQQ  
QQHGQTPQQA HQHTGGPGMA PLGATGHPGM MPHQQPPYP LMHHQMPPPH PPQPGQIPGP  
GSMMPGQPMP GRMIPAVAAN IHPTGSGPTP PGMPPMPGNI LGPRVPLTAP NGMYPPPPQQ  
QQPPPPADGV PPPPAPGPPA SATP

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

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Smarcc1 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.

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### 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

## Product Details

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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

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Target: SMARCC1

Alternative Name: Smarcc1 ([SMARCC1 Products](#))

Background: Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). May stimulate the ATPase activity of the catalytic subunit of the complex. Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a postmitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to postmitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth. {ECO:0000250, ECO:0000269|PubMed:11604513, ECO:0000269|PubMed:17640523}.

Molecular Weight: 123.8 kDa Including tag.

UniProt: [P97496](#)

Pathways: [Chromatin Binding](#)

## Application Details

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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

## Application Details

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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.

Restrictions: For Research Use only

## Handling

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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

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