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SMARCA1 Protein (AA 1-1046) (Strep Tag)



Go to Product page

Overview

Quantity:	1 mg
Target:	SMARCA1
Protein Characteristics:	AA 1-1046
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMARCA1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

MEPDTATEAA TVAVSDARAT VVVVEDEQPG PSTFKEEGAA AAATEGTTAT EKGEKKEKIT SPFQLKLAAK ASKSEKEMDP EYEEKMVNMP LKADRAKRFE FLLKQTELFA HFIQPSAQKS PTSPLNMKLA RPRVKKDDKQ SLISVGDYRH RRTEQEEDEE LLSESRKTSN VCVRFEVSPS YVKGGPLRDY QIRGLNWLIS LYENGVNGIL ADEMGLGKTL QTIALLGYLK HYRNIPGPHM VLVPKSTLHN WMNEFKRWVP SLRVICFVGD KDVRAAFIRD EMMPGEWDVC VTSYEMVIKE KSVFKKFHWR YLVIDEAHRI KNEKSKLSEI VREFKSTNRL LLTGTPLQNN LHELWALLNF LLPDVFNSAD DFDSWFDTKN CLGDQKLVER LHAVLKPFLL RRIKTDVEKS LPPKKEIKIY LGLSKMQREW YTKILMKDID VLNSSGKMDK MRLLNILMQL RKCCNHPYLF DGAEPGPPYT TDEHIVGNSG KMVALDKLLA RIKEQGSRVL IFSQMTRLLD ILEDYCMWRG YEYSRLDGQT PHEEREEAID AFNAPNSSKF IFMLSTRAGG LGINLASADV VILYDSDWNP QVDLQAMDRA HRIGQKKPVR VFRLITDNTV EERIVERAEI KLRLDSIVIQ QGRLIDQQSN KLAKEEMLQM IRHGATHVFA CKESELTDED IVTILERGEK KTAEMNERMQ KMGESSLRNF RMDLEQSLYK

FEGEDYREKQ KLGTVEWIEP PKRERKANYA VDAYFREALR VSEPKIPKAP RPPKQPNVQD
FQFFPPRLFE LLEKEILYYR KTIGYKVPRN PEIPNPAIAQ REEQKKIDGA EPLTPQETEE
KDKLLTQGFT NWTKRDFNQF IKANEKYGRD DIDNIAREVE GKSPEEVMEY SAVFWERCNE
LQDIEKIMAQ IERGEARIQR RISIKKALDA KIARYKAPFH QLRIQYGTSK GKNYTEEEDR
FLICMLHKMG FDRENVYEEL RQCVRNAPQF RFDWFIKSRT AMEFQRRCNT LISLIEKENM
EIEERERAEK KKRATKTPMV KFSAFS

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

• 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.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- 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:

 \geq 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:

SMARCA1

Alternative Name:

Smarca1 (SMARCA1 Products)

Background:

Probable global transcription activator SNF2L1 (EC 3.6.4.-) (ATP-dependent helicase SMARCA1) (DNA-dependent ATPase SNF2L) (Nucleosome-remodeling factor subunit SNF2L) (SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 1),FUNCTION: Helicase that possesses intrinsic ATP-dependent chromatin-remodeling activity (By similarity). ATPase activity is substrate-dependent, and is increased when nucleosomes are the substrate, but is also catalytically active when DNA alone is the substrate (By similarity). Catalytic subunit of ISWI chromatin-remodeling complexes, which form ordered nucleosome arrays on chromatin and facilitate access to DNA during DNA-templated processes such as DNA replication, transcription, and repair (By similarity). Within the ISWI chromatin-remodeling complexes, slides edge- and center-positioned histone octamers away from their original location on the DNA template (By similarity). Catalytic activity and histone octamer sliding propensity is regulated and determined by components of the ISWI chromatinremodeling complexes (By similarity). The BAZ1A-, BAZ1B-, BAZ2A- and BAZ2B-containing ISWI chromatin-remodeling complexes regulate the spacing of nucleosomes along the chromatin and have the ability to slide mononucleosomes to the center of a DNA template (By similarity). The CECR2- and RSF1-containing ISWI chromatin-remodeling complexes do not have the ability to slide mononucleosomes to the center of a DNA template (By similarity). Within the NURF-1

and CERF-1 ISWI chromatin remodeling complexes, nucleosomes are the preferred substrate
for its ATPase activity (By similarity). Within the NURF-1 ISWI chromatin-remodeling complex,
binds to the promoters of En1 and En2 to positively regulate their expression and promote brain
development (By similarity). May promote neurite outgrowth (By similarity). May be involved in
the development of luteal cells (By similarity). {ECO:0000250 UniProtKB:P28370}.

Molecular Weight: 121.7 kDa

UniProt: Q6PGB8

Pathways: Chromatin Binding

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.

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Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce

even the most difficult-to-express proteins, including those that require post-translational

modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

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Expiry Date:

Unlimited (if stored properly)